

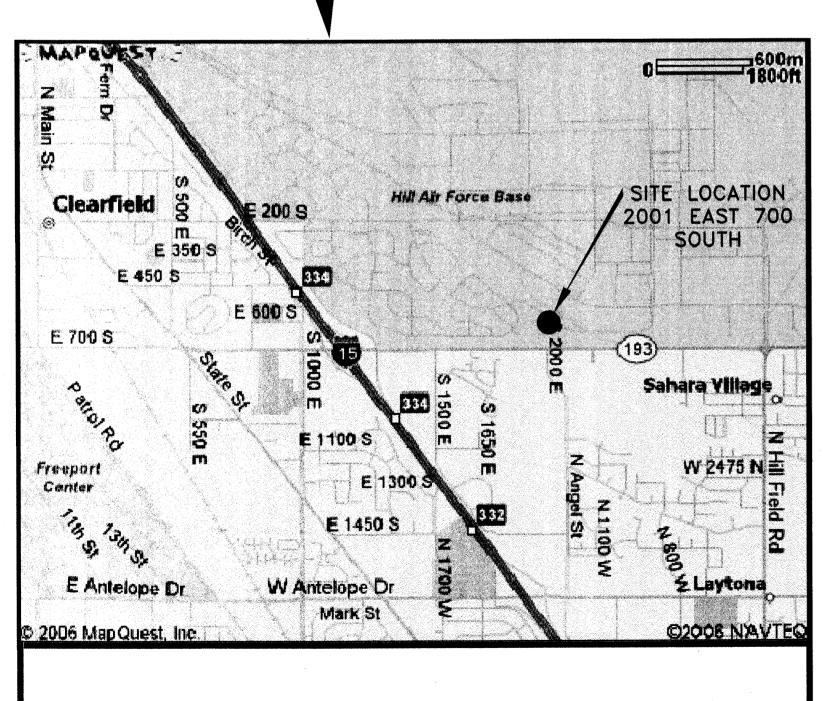


# UDOT MAINTENANCE STATION #1424 CLEARFIELD, UTAH

DFCM PROJECT #06034900

# CONSTRUCTION DOCUMENTS

DECEMBER 8, 2006



LOCATION MAP

NO SCALE

PREPARED BY



architecture · planning · design services

1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373 Ralph Stanislaw

# CONSULTANTS

STRUCTURAL

Gerald McKenzie

BHB Consulting Engineers 244 West 300 North Suite 202 Salt Lake City, Utah 84103 Telephone: (801) 355-5656 Fax: (801) 355-5950

**MECHANICAL** 

PVE Inc. 90 South 400 West Suite 340 Alan Spendlove

**ELECTRICAL** 

PVE Inc. 90 South 400 West Suite 340 Salt Lake City, UT 84101 Salt Lake City, UT 84101 Telephone: (801) 359-3158 Telephone: (801) 359-3158 Fax: (801) 521-4114 Fax: (801) 521-4114 Roger Riddle

CIVIL

JUB Engineering 40 W. Cache Valley Blvd. Logan, UT 84341 Telephone: (435) 713-9514 Fax: (435) 713-9503 Zan Murray

# **CODE ANALYSIS**

		APPLICABLE CODES											
ĺ						Year				<del> </del>		Year	i
		Int Int Int	ernational Bernational Nernational Pernational F	Mechanica Plumbing C ire Code	l Code			Jniform Building ADA Ac	l Electrica Code for Conserv cessibility	ation		2005 N.A.	
			ternational E		<u></u>	2003		Guildelir	nes			2002	
	1	A.	Occupancy		ıp: S	S1							
	\		Change in Special Use			No <u>x</u>	Mixe	ed Occu				0	
	>,	3.	Seismic De	sign Cate	gory:	D	Desi	gn Wind	d Speed:	90	mph		
1	> (	C.	Type of Co	nstruction	(circle	one):							
	•		A	I B	II A	B	<u>III</u> A	<u>Ш</u> В	<u>I</u> ▼ HT	<u>\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</u>	$\left(\frac{\mathbf{Z}}{\mathbf{B}}\right)$		
}	. 1	D.	Fire Resist separation	distance (	in hours	):				oased or	the t	fire	>
>	ı	Ε.	Mixed Occ	upancies:	YES	_ No	onsepar	ated Us	ses: <u>N</u>	0			
	1	F:	Sprinklers:		Provide	ed: <u>NO</u>	Tvp	e of Spr	inkler Sv	stem:	N.	Α.	
Y	(	G:	Number of										5
	7	H:	Actual Are	a per Floo	or (squa	re feet): _		9911	SF				,
	١	l:	Tabular Ar	ea:			9000 SF	<u> </u>					
	,	J:	Area Modi	_	, J. F.	. 7	٧,		г	-			
			a) $A_a = A$	$_{t}$ + $\left[\frac{A_{t} I_{f}}{100}\right]$	$ +$ $\left[\frac{A_t}{10}\right]$	$\begin{bmatrix} I_s \\ 00 \end{bmatrix}$		I <sub>f</sub> = 10	0 <del>F</del> -	- 0.25	W 30		
			15750	SF = 90	000 +	9000 (7	(5)	9000	0 (0)	_			
			b) Sum o	f the Ratio	Calcula	ations for	Mixed	Occupar	ncies:			_	
4			Actual	Area able Area	≤ 1	9911	SF SF	= .6	329				
				Allowable <i>i</i> ne Story:									
			2) Tv	vo Story: nree Story:	A <sub>a</sub> (2)								
			d) Unlimi	ted Area E	Building:	Yes _		No	<u>x</u> Co	ode Secti	ion; _	· · · · · · · · · · · · · · · · · · ·	
		K.	Fire Resis	tance Rat	ing Requ	uirements	s for Bu	ilding El	lements (	hours).			
			ement		Tiodis	Assembly Listing	Lieili				urs	Assembly Listing	-
			terior Bearing erior Bearing '		0	N.A. N.A.	1	s - Ceiling s - Ceiling	•		)	N.A. N.A.	
			terior Non-Be ructural Frame	-	0	N.A. N.A.	1	or Doors	and Wind			N.A. N.A.	-
		Pa	rtitions - Perm		0	N.A.	Fire \	Valls		- 0		N.A.	
		Fir	e Barriers		0	N.A.	1	Partitions e Partitio				N.A.	-
		L. M.	a) Water	Required: Number o Occupant Closets -	6.6"  f Requir Load: Require	ed Plumb 10* *E	Exit Wideling Factors	dth Providities: *UN UDOT S'	JNISEX (IBS TAFFING (1 Provide	SECTION 5 MAX.) ed (m)	1*	(f) <u>1</u> *	
			b) Lavato c) Bath T							i (m)1	*	(f) <u>1*</u>	-
V		_	d) Drinkii	ng Founta	ins:	1	Service	Sinks: _					
			-\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	NUM NUM	IBEK OF	- EMPLO	TEES	15	<u> </u>	<u> </u>	^	$\nearrow \bigcirc$	

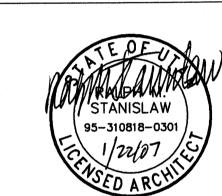
CLEARFIELD MAINTENANCE FACILITY



CONSULTANTS



PROFESSIONAL SEAL



1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL

07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

MARK DATE   DESCRIT	11011
DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	NONE
DATE:	DECEMBER 8, 2006
KEY PLAN	

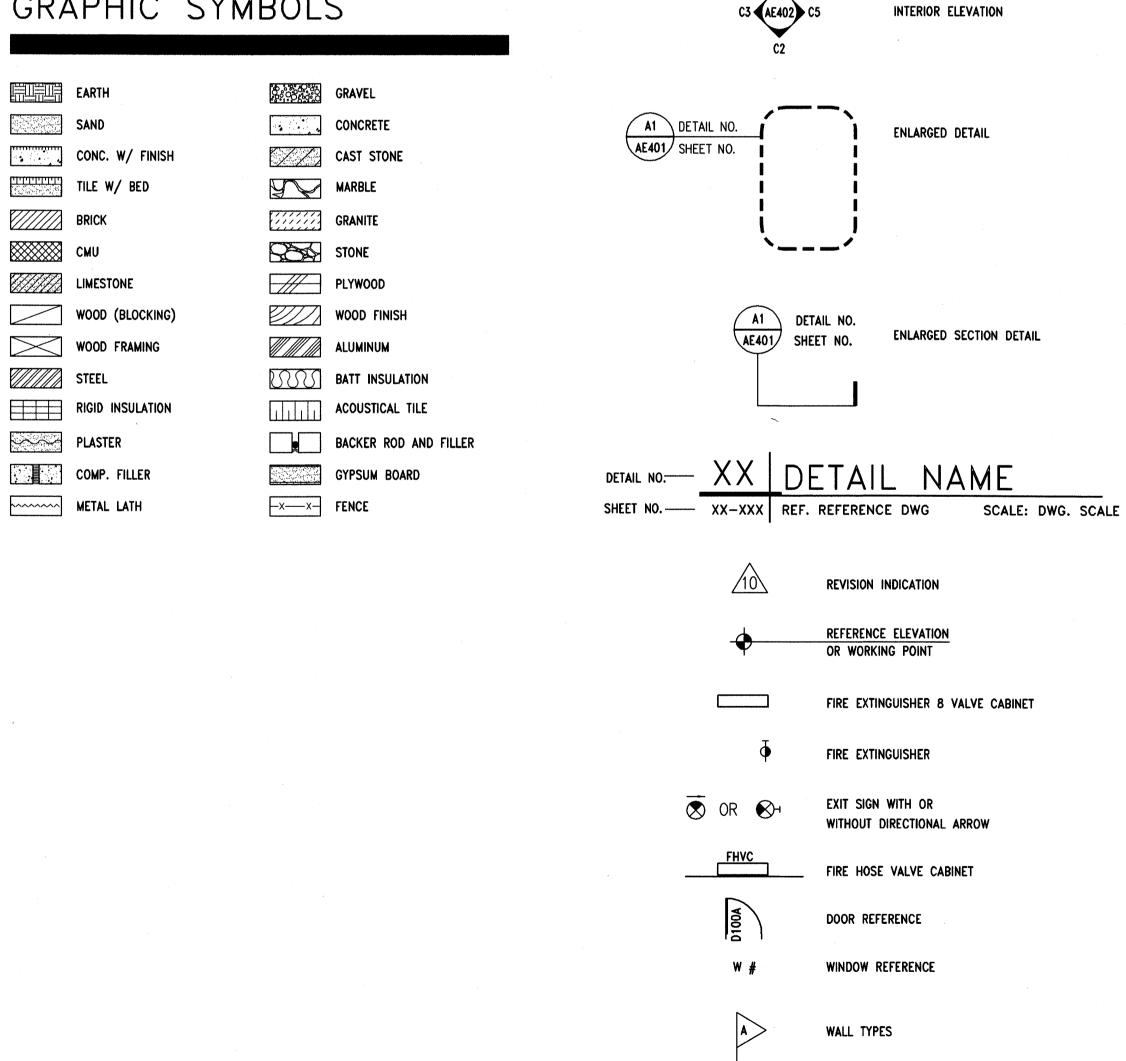
SHEET TITLE

COVER SHEET

G000

- 1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE BEFORE SUBMITTING A BID OR PROCEEDING WITH ANY PORTION OF THE WORK.
- 2. WHENEVER QUESTIONS ARISE OR CONDITIONS ARE ENCOUNTERED WHICH ARE NOT COVERED BY OR ARE IN CONFLICT WITH THE CONTRACT DOCUMENTS, CONSULT WITH THE ARCHITECT PRIOR TO TAKING ANY FURTHER ACTION.
- 3. ALL DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD,
- 4. DO NOT SCALE DRAWINGS FOR DIMENSIONS.
- 5. DIMENSIONS NOTED AS N.T.S. ARE TO BE FIELD VERIFIED.
- 6. ALL WOOD IN CONTACT WITH OR WITHIN 8" OF SOILS IS TO BE FIELD TREATED FOR MOISTURE, RODENT AND INSECT PROTECTION.
- 7. THE CONTRACTOR SHALL COORDINATE THE SEQUENCING OF WORK WITH THE OWNER AND ARCHITECT TO MEET THE OWNERS SCHEDULE.
- 8. CONTRACTOR SHALL LEAVE WORK AREAS BROOM CLEAN AND FREE OF TOOLS, EQUIPMENT, ETC., AT THE END OF EACH SHIFT. ALL CONSTRUCTION ACTIVITY SHALL BE CONTAINED WITHIN CONSTRUCTION BARRICADES OR FENCES. CONTRACTOR SHALL PROTECT OWNERS EXISTING CONSTRUCTION AND EQUIPMENT ADJACENT TO NEW CONSTRUCTION. CONTRACTOR SHALL CLEAN ALL SURFACES TO "LIKE NEW" CONDITION AT THE COMPLETION OF
- 9. PROVIDE WATER SUPPLY ROUGH-IN AND ELECTRICAL SUPPLY TO IRRIGATION CONTROLS. PROVIDE PVC SLEEVE UNDER PAVEMENTS AND
- 10. THE DESIGN OF THE PRE MANUFACTURED STRUCTURAL ROOF SYSTEM INCLUDING THE STEEL DECK, JOISTS, GIRDERS, COLUMNS AND THE LATERAL FORCE RESISTING SYSTEM (INCLUDING RIGID FRAMES) IS THE RESPONSIBILITY OF THE PRE MANUFACTURED METAL BUILDING SUPPLIER. FOOTINGS, STEEL COLUMNS, CONCRETE PIER SIZES & LOCATIONS SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDE AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

## GRAPHIC SYMBOLS



ARCHITECTURAL LEGEND

ELEVATION NO.

WALL SECTION NO.

SHEET NO.

AE311

COLUMN CENTER LINE

BUILDING SECTION

**ELEVATION** 

WALL SECTION

INTERIOR ELEVATION

## ABBREVIATIONS

ALT.	ALTERNATE	FIN.	FINISH	MISC.	MISCELLANEOUS	STD.	STANDARD
ALUM.	ALUMINUM	F.A.	FIRE ALARM	MTD.	MOUNTED	STL.	STEEL
A.B.	ANCHOR BOLT	F.E.	FIRE EXTINGUISHER	MUL.	MULLION	STOR.	STORAGE
<b>&amp;</b> c	AND	F.E.C.	F.E. CABINET			STRUCT.	STRUCTURAL/STRUCTU
ARCH.	ARCHITECTURAL	FLR./FL.	FLOOR	NOM.	NOMINAL	SYM.	SYMMETRICAL
0	AT OR AT THE	F.D.	FLOOR DRAIN	N.	NORTH	S.STL	STAINLESS STEEL
		FTG.	FOOTING	N.I.C.	NOT IN CONTRACT		TELEBUIANE
BM.	BEAM	FDN.	FOUNDATION	N.T.S.	NOT TO SCALE	TEL.	TELEPHONE
BLK.	BLOCK			NO. OR #	NUMBER	TEMP.	TEMPORARY/TEMPERED
BLKG.	BLOCKING	GALV.	GALVANIZED			THK.	THICK (NESS)
BD.	BOARD	G.I.	GALVANIZED IRON	OFOI	OWNER FURNISH,	T & G	TONGUE AND GROOVE
BOT.	BOTTOM	GA.	GAUGE		OWNER INSTALL	T/CONC.	TOP OF CONCRETE
BLDG.	BUILDING	GL.	GLASS	OFCI	OWNER FURNISH,	T/CURB	TOP OF CURB
		GR.	GRADE		CONTRACTOR INSTALL	T.O.P.	TOP OF PLATE
CLKG.	CAULKING	GND.	GROUND	OFF.	OFFICE	T/WALL	TOP OF WALL
C.I.	CAST IRON	GYP.	GYPSUM	0.C.	ON CENTER	Т.	TREAD
CLG.	CEILING	GYP. BD.	GYPSUM BOARD	OPNG.	OPENING	TYP.	TYPICAL
CEM.	CEMENT			OPP.	OPPOSITE		
CTR.	CENTER	HDWR.	HARDWARE	OPP. H.	OPPOSITE HAND	UNF.	UNFINISHED
	CENTER LINE	HDWD.	HARDWOOD	O.D.	OUTSIDE DIAMETER	U.N.O.	UNLESS NOTED OTHER
CER.	CERAMIC	HT.	HEIGHT				•
C.T.	CERAMIC TILE	H.P.	HIGH POINT	PTD.	PAINTED	VAR.	VARY OR VARIES
CFCI	CONTRACTOR FURNISH,	HORIZ.	HORIZONTAL	PR.	PAIR	VERT.	VERTICAL
	CONTRACTOR INSTALL	H.B.	HOSE BIBB	PART.	PARTITION	V.T.R.	VENT THROUGH ROOF
CFOI	CONTRACTOR FURNISH,	НМ	HOLLOW METAL	PED.	PEDESTRIAN		
	OWNER INSTALLED	HR.	HOURS (FIRE RATING)	PLAS.	PLASTER	W/	WITH
CLR.	CLEAR (ANCE)		, ,	P. LAM.	PLASTIC LAMINATE	WD.	WOOD
CLO.	CLOSET	IN.	INCH	PL	PLATE	WP.	WATERPROOF
COL.	COLUMN	I.D.	INSIDE DIAMETER	PM	PRESSED METAL	WSCT.	WAINSCOT
CONC.	CONCRETE	INUSL.	INSULATION	PLYWD.	PLYWOOD	W/0	WITHOUT
CMU	CONCRETE MASONRY UNIT	INT.	INTERIOR	PT.	POINT	W.P.	WORKING POINT
CONN.	CONNECTION	JAN.	JANITOR			W.R.	WATER RESISTANT
CONSTR.	CONSTRUCTION	JAN. JT.	JOINT	Q.T.	QUARRY TILE		
CONT.	CONTINUE/CONTINUOUS	J-BOX		DAD	DADILLO		
CONTR.	CONTRACTOR	J-BOX	JUNCTION BOX	RAD.	RADIUS		
C.J.	CONTROL JOINT	KIT.	KITCHEN	R.W.L.	RAIN WATER LEADER		
CORR.	CORRIDOR	*****	1111011211	RE:	REFER TO		
CNTR.	COUNTER	LAM.	LAMINATE	REFL.	REFLECTED		
CTSK.	COUNTERSUNK	LAV.	LAVATORY	REINF.	REINFORCING		
CISK.	COUNTERSONN	LT.	LIGHT	REQ.	REQUIRED		
DET.	DETAIL	L.P.	LOW POINT	REV.	REVISED		
DIA.	DIAMETER			R.	RISER		
DIM.	DIMENSION	MAINT.	MAINTENANCE	R.D.	ROOF DRAIN		
DN.	DOWN	MFR.	MANUFACTURER	RM.	ROOM		
D.S.	DOWNSPOUT	M.O.	MASONRY OPENING	R.O.	ROUGH OPENING		
		MAX.	MAXIMUM				
DWG.	DRAWING FOUNTAIN	MECH.	MECHANICAL	SCHED.	SCHEDULE		
D.F.	DRINKING FOUNTAIN	MEMB.	MEMBRANE	SEAL.	SEALANT		
EA.	EACH	MEN	MEN'S TOILET	SECT.	SECTION		
ELEC.	ELECTRIC (AL)	MTL./MET.		S.SK.	SERVICE SINK		
ELEV./EL.	ELEVATION	•	METAL	SHT.	SHEET		
•		MIN.	MINIMUM	SIM.	SIMILAR		
EQ.	EQUAL	MIR.	MIRROR	SL./SLP.	SLOPE		
EQUIP.	EQUIPMENT			S.C.	SOLID CORE		
EXP.	EXPANSION			SPEC.	SPECIFICATIONS		
EXT.	EXTERIOR						
EW	EACH WAY			SQ.	SQUARE		

## INDEX OF DRAWINGS

G000 G001 G002	COVER SHEET GENERAL NOTES, ABBREVIATIONS, SYMBOLS, LEGEND & SHEET INDEX MASTER KEYNOTE LIST
CIVIL	
C001	CIVIL NOTES
C101	DEMOLITION PLAN
C102	SITE PLAN
C103	GRADING PLAN
C104	UTILITY PLAN
C401	SEWER CONNECTION PLAN & PROFILE
C501	CIVIL DETAILS

	AE101	FIRST FLOOR AND MEZZANINE PLANS
	AE121	FIRST FLOOR AND MEZZANINE REFLECTED CEILING PLANS
	AE141	ROOF PLAN & ROOF DETAILS
	AE201	EXTERIOR ELEVATIONS AND DETAILS
	AE202	EXTERIOR ELEVATIONS AND DETAILS
	AE301	BUILDING SECTIONS AND DETAILS
	AE311	WALL SECTIONS
^	AE401	-ENLARGED RESTROOM FLOOR PLAN, INT. ELEVTATIONS AND DETAILS
<u> </u>	AE402	ENLARGED MAINTENANCE BAY AND INTERIOR ELEVATIONS
	AE403	STAIR PLAN, SECTION, ELEVATIONS AND DETAILS
	AE501	WALL TYPES
	AE502	SIGNAGE AND MISC. DETAILS
	AE601	DOOR SCHEDULE AND DETAILS
	AE602	WINDOW FRAME TYPES, GLAZING & FINISH SCHEDULES AND DETAILS
	AE701	SITE STRUCTURES - SALT STORAGE PLAN, SECTION & ELEVATIONS
	AE702	SITE STRUCTURES - SALT STORAGE DETAILS
	AE703	SITE STRUCTURES - WASH RACK PLAN, SECTION & ELEVATIONS

#### CTDUCTUDAL

STRUCT	STRUCTURAL					
S001	GENERAL STRUCTURAL NOTES					
S101	FOOTING AND FOUNDATION PLAN					
S102	FOOTING AND FOUNDATION PLANS					
S501	FOOTING AND FOUNDATION DETAILS					
S502	FOOTING AND FOUNDATION DETAILS					
\$ \$503	FOOTING AND FOUNDATION DETAILS					
S504	MEZZANINE STAIR DETAILS					
\$601	STRUCTURAL SCHEDULES					
MECHAN	110.41					

MECHANICAL						
MOO1 MECHANICAL SCHEDULE SHEET						
M201 MECHANICAL FLOOR PLAN						
M601 MECHANICAL DETAIL SHEET						
M602 MECHANICAL DETAIL SHEET						
M603 MECHANICAL DETAIL SHEET						
P001 PLUMBING SCHEDULE SHEET						
P201 PLUMBING FLOOR PLAN						
P301 PLUMBING ENLARGEMENTS						
P601 PLUMBING DETAIL SHEET						
P602 PLUMBING DETAIL SHEET						
P603 PLUMBING DETAIL SHEET						
ELECTRICAL						

E001	ELECTRICAL SCHEDULES & NOTES
E002	PANEL SCHEDULES, ONE LINE DIAGRAMS & DETAILS
E100	ELECTRICAL SITE PLAN
E201	LIGHTING FLOOR PLAN
E202	SALT STORAGE BLDG. ELECTRICAL PLAN
E301	POWER FLOOR PLAN

CLIENT

CLEARFIELD MAINTENANCE **FACILITY** STATION #1424 2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

DESIGNER



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL

07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477 DFCM PROJECT NO: 06034900 ARCHIPLEX PROJECT NO: 0609.01 K. PHILLIPS DRAWN BY: R. STANISLAW CHECKED BY: SCALE: DATE: DECEMBER 8, 2006 KEY PLAN

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, SYMBOLS, LEGEND & SHEET INDEX

G001

#### MACTED VEVNOTE LICT ADDITE TO ADCITECTUDAL DRAWINGS ONLY

DIVISION 1 GENERAL REQUIREMENTS	05500 METAL FABRICATIONS (CONT.)	DIVISIO
	05500.VO FLOOR PLATE	08111
DIVISION 2 SITEWORK	05500.X1 STEEL STUD (RE:STRUCTURAL)	08111.A0 P
D2000 EARTHWORK	05500.X2 STEEL RUNNER (RE:STRUCTURAL)	08111.A1 G
D2200.AO COMPACTED FILL	05500.YO ROUGH HARDWARE – GALVANIZED 05500.ZO CHAIN – GALVANIZED	08111.B0 H
D2200.BO GRAVEL BASE	05510 METAL STAIRS	08111.CO J
D2200.CO SAND	05510.A1 LADDER RUNGS	08360
02511 ZERO VOIDS ASPHALT PAVING	05510.BO LADDER RAILS	08360.A0 O
02511.A0 ZERO VOIDS ASPHALT PAVING (THICKNESS)	05510.CO LADDER MOUNTING BRACKET 05510.D1 RUBBER SHOE AT BOTTOM OF EACH RAIL	08360.B0 3 08360.C0 W
D2740 ASPHALT CONCRETE PAVING	05510.E1 NON SKID SURFACE O NOSING	08360.D0 D
	05510.F0 STEEL STRINGER - (SIZE)	08520
02740.A0 ASPHALT CONCRETE PAVING	05510.F1 STEEL STRINGER - (SIZE) - GALVANIZED 05510.G1 3/16" STEEL CLOSURE PLATE - GALVANIZED	
DIVISION 3 CONCRETE	05510.HO CONC. FILLED METAL PAN STAIR - GALVANIZED	08520.A0 V 08520.B0 F
CONCRETE WATER PROOFING ADMIXTURE	05510.H1 PRE-FORMED, CONC. FILLED METAL PAN STAIR TREAD - (SIZE) - GALVANIZED 05510.J1 METAL PAN STAIR SUPPORT - (SIZE) - GALVANIZED	08520.C0 A
D3053.AO CONCRETE WATER PROOFING ADMIXTURE	05510.J2 PAN ANCHORAGE - (SIZE) - GALVANIZED	08520.M0 S
	05510.K1 STEEL CHANNEL DECK SUPPORT - GALVANIZED	08520.Q0 V
03054 OLIOPHOBIC TOPICAL CONCRETE SEALER	O5521 PIPE & TUBE RAILINGS	08520.R0 A
03054.A0 OLIOPHOBIC TOPICAL SEALER	05521.A1 1 1/2" O.D. STEEL GUARDRAIL	08521
03300 CAST-IN-PLACE CONCRETE	05521.A2 PIPE GUARDRAIL (DIAMETER) — GALVANIZED 05521.A3 1 1/2" O.D. PIPE GUARDRAIL — GALVANIZED	08521.B0 F
	) 05521.B1 1 1/2" O.D. HANDRAIL	08521.C0 \
3300.A0 CONCRETE — SLAB ON GRADE 3300.A1 CONCRETE SLAB—ON—GRADE — RE: STRUCTURAL	05521.B2 PIPE HANDRAIL (DIAMETER) — GALVANIZED 05521.B3 1 1/2" O.D. PIPE HANDRAIL — GALVANIZED	08710
3300.A2 CONCRETE SLAB-ON-GRADE (THICKNESS)	05521.C2 ESCUTCHEON WITH EASED EDGES (SIZE)	08710.A0
3300.B1 CONCRETE SLAB — RE:STRUCTURAL	05521.D1 PIPE RAIL SUPPORT - GALVANIZED	08710.B0
3300.B2 CONCRETE SLAB (THICKNESS) 3300.C0 FOOTING	05521.E1 1" I.D. PIPE RAILING ANCHOR – GALVANIZED 05521.F1 1/2" DIA. THRU BOLT	08710.C0 \
33300.C1 FOOTING — RE: STRUCTURAL	05530 GRATINGS	08800
03300.DO CONCRETE PAD 03300.EO RETAINING WALL	05530.AO TRENCH FRAME - GALVANIZED	08800.C0
33300.FO CAST-IN-PLACE REINFORCED CONCRETE	05530.A1 STEEL GRATE 22-W-4 (SIZE) GALVANIZED	08800.G1
03300.GO CONCRETE OVER METAL DECK - RE:STRUCTURAL	05530.BO ALUMINUM BAR PANELS 05530.C1 METAL GRATE PANEL — GALV.	08800.G3 (
3300.HO FOUNDATION WALL, RE: STRUCTURAL 3300.H1 CONCRETE PIER, RE: STRUCTURAL	05530.C2 METAL GRATE TREAD - GALV.	DIVISIO
3300.JO REINFORCING	DIVICION C WOOD AND DI ACTICO	09255
03300.J1 REINFORCING - RE: STRUCTURAL 03300.J2 #4 BARS CONTINUOUS (QUANTITY)	DIVISION 6 WOOD AND PLASTICS	
3300.J3 #5 BARS CONTINUOUS (QUANTITY)	06105 MISCELLANEOUS CARPENTRY	09255.A1 G
03300.K1 THICKENED SLAB, RE: STRUCTURAL 03300.L1 30# FELT	06105.L2 BLOCKING AS REQUIRED	09255.B2 T
3300.M1 MOISTURE BARRIER	06105.P1 2X4	09255.C3 (
33300.NO CONCRETE CURB	06105.P2 2X6 06105.P6 4X4	09255.H0 N
03300.P3 CONTROL JOINT RE: STRUCTURAL 03300.P4 CONSTRUCTION JOINT	06105.P9 2 x FRAMING, FIRE TREATED	09255.J0 N
03300.P6 CHAMFER JOINT	06105.P10 PRESSURE TREATED WOOD TIMBER (SIZE) 06105.Q2 SHIM AS REQUIRED	09255.K0 ( 09255.K1 (
03300.P7 SAWCUT CONSTRUCTION JOINT, TYP. 03300.S1 SPLASH BLOCK	06105.R2 SHEATHING - PLYWOOD (THICKNESS) GRADE (SIZE)	09255.L1 7
3300.S2 CONCRETE SWALE	06105.R3 PROTECTION BOARD (THICKNESS) 06105.V1 EXTERIOR GRADE PLYWOOD (THICKNESS)	09255.L2 2 09255.M2 N
03300.T1 CONCRETE ® STAIR TREAD	06105.V6 PEGBOARD (THICKNESS)	09255.M2 7
DIVISION 5 METALS	06105.ZO ANCHOR AS REQUIRED	09255.Q0 7
05120 STRUCTURAL STEEL	06402 INTERIOR ARCHITECTURAL WOODWORK	09255.R2 0 09255.S1 8
05120.A1 STEEL BEAM - RE: STRUCTURAL - GALVANIZED	06402.A0 SILL	09255.S2 1
15120.B1 COLUMN - RE: STRUCTURAL - GALVANIZED	06402.A1 3/4" PAINTED WOOD SILL	09255.S3 1 09255.S4 1
05120.C1 TUBE STEEL BEAM - RE: STRUCTURAL - GALVANIZED	06402.B1 PLASTIC LAMINATE BACKSPLASH (HEIGHT)	09255.U1 S
D5310 STEEL DECK	06402.C1 PAINT GRADE WOOD CAP (THICK) 06402.HO SHELF(VES)	09255.V0 E
05310.A1 METAL DECK - RE: STRUCTURAL	06402.H1 ADJUSTABALE SHELVES (FINISH)	09255.V2 L 09255.V4 N
	06402.H2 SHELVING (DEPTH) 06402.K0 BASE UNIT (FINISH)	
05400 COLD-FORMED METAL FRAMING	06402.K2 BASE UNIT W/ADJ. SHELF(VES) (FINISH)	09300
D5400.X1 STEEL STUD	06402.K3 BASE UNIT W/DRAWERS (FINISH)	09300.A1 F
05400.X2 STEEL TRACK 05400.X3 STEEL JOIST - RE:STRUCTURAL	06402.K4 BASE UNIT W/DRAWER & ADJ. SHELF(VES) (FINISH) 06402.L2 WALL UNIT W/ADJ. SHELF(VES) (FINISH)	09300.B1 V 09300.C0 T
	06402.PO COUNTERTOP	09300.D1 E
05500 METAL FABRICATIONS	06402.P2 COUNTERTOP - P. LAM. ON 3/4" PLYWOOD  06402.X0 WORKBENCH (DEPTH)	09300.E1 1
05500.A1 ANGLE - RE: STRUCTURAL	OUTOLING WORKDERON (DEFIN)	09300.G4 V
15500.A2 STEEL ANGLE (SIZE) – GALVANIZED 15500.B0 CLIP ANGLE	06651 SOLID SURFACE FABRICATIONS	09660
5500.B2 CLIP ANGLE (SIZE)	06651.A0 1/2" WHITE SOLID SURFACE WINDOW SILL	
5500.C1 SHEET METAL ANGLE - 22 GA GALVANIZED (SIZE) 5500.D0 CHANNEL (SIZE)	DIVISION 7 THERMAL AND	09660.A1 \
5500.D1 CHANNEL - RE: STRUCTURAL	MOISTURE PROTECTION	
5500.D2 HAT CHANNEL (SIZE)	MODIONE INCIECTION	09678
15500.E0 PLATE (SIZE) 15500.E1 PLATE – RE: STRUCTURAL	07901 JOINT SEALANTS	09678.E1 F
5500.E2 PLATE (SIZE) — GALVANIZED		09900
15500.E3 BENT PLATE - SEE STRUCTURAL	07901.A0 CONT. SEALANT 07901.B0 ASPHALT SATURATED FIBERBOARD	09900.A1 P
15500.J1 PIPE BOLLARD (DIAMETER) — GALV. & PAINTED 15500.M1 CHECKERED PLATE (SIZE) GALVANIZED	07901.C0 CONT. CAULK	JUJUUMI P
5500.PO ANCHOR BOLT(S)	07901.D0 JOINT FILLER	DIVISIO
PEOO DA ANOMOD BOLES (COMPANY)	U/9UI.GU BACKER RUD	
5500.P1 ANCHOR BOLTS (DIAMETER, SPACING)	07901.GO BACKER ROD 07901.H1 5/8" BEAD OF DE NEFF SWELLSEAL WA MASTIC	10100
5500.P1 ANCHOR BOLTS (DIAMETER, SPACING)		10100 10100.c0

07901.H3 CONCENTRATED SLURRY COAT

2

DIVISI	ON 8 DOORS AND WINDOWS
08111	STANDARD STEEL DOORS AND FRAMES
08111 A0	PRESSED METAL FRAME
	GROUT-FILLED PRESSED METAL FRAME
	HOLLOW METAL DOOR
08111.C0	JAMB ANCHOR
08360	SECTIONAL OVERHEAD DOORS
	OVERHEAD SECTIONAL DOOR
	3" HEAVY DUTY OVERHEAD SECTIONAL DOOR TRACK
	WEATHERSTRIPPING DOOR GUIDE
00500.00	DOOK GOIDE
08520	ALUMINUM WINDOWS
08520.A0	WINDOW UNIT
08520.B0	FIXED ALUM. WINDOW
	ALUM. WINDOW W/SLIDING GLASS PANEL
08520.MU 08520.PO	SILL STARTER, SET IN SEALANT BREAKMETAL
	WEATHERSTRIPPING
08520.R0	ALUMINUM FLASHING, FINISH TO MATCH WINDOW FRAME
00521	HODIZONTAL SUDING VINVI (DVG) WINDOWS
08521	HORIZONTAL SLIDING VINYL (PVC) WINDOWS
08521.B0 08521.C0	FIXED VINYL WINDOW VINYL WINDOW W/SLIDING GLASS PANEL
UU	THIS THEOR BY SCIDING GLASS FAMEL
08710	DOOR HARDWARE
08710.A0	THRESHOLD
08710.B0	DOOR SWEEP
08/10.C0	WEATHERSTRIPPING
08800	GLAZING
08800.C0	WIRE GLASS
08800.G1	CLEAR INSULATING GLASS (SIZE)
08800.G3	OPAGUE INSULATING GLASS
DIVISI	ON 9 FINISHES
09255	GYPSUM BOARD ASSEMBLIES
09255.A1	•
	WATER RESISTANT GYPSUM BOARD (THICKNESS)  TYPE 'X' GYPSUM BOARD (THICKNESS)
09255.C3	CEMENT BOARD (THICKNESS)
09255.H0	METAL STUD
	METAL STUDS (SIZE, SPACING)
09255.J0	METAL RUNNER
09255.K0	DOUBLE STUDS
09255.K1	DOUBLE STUDS (GAGE)
09255.L1	7/8" X 1-3/8" METAL ANGLE
	2-1/2" X 2-1/2" METAL ANGLE
	METAL CORNER BEAD (TYP)
09255.P0	Z-FURRING CHANNEL
	7/8" METAL FURRING CHANNEL CHANNEL (SIZE, SPACING)
09255.S1	
	18 GA. WIRE TIES
	18 GA. METAL MOUNTING STRIPS
	14 GA. STAINLESS STEEL COUNTER TOP (FINISH)
	SUSPENDED CEILING SYSTEM
	EDGE TRIM (TYP)
09255.V2 09255.V4	LC-BEAD (PREFERRED USG 200-A TRIM) VINYL TRIM
09300	TILE
09300.A1	FLOOR TILE - SEE FINISH SCHED.
09300.B1	
09300.C0 09300.D1	TILE BASE RILLNOSE TRIM LINIT
	BULLNOSE TRIM UNIT  1/2" x 6" TILE TRIM PIECE - SEE FINISH SCHED.
09300.E1	MORTAR BED
09300.G4	
09660	RESILIENT TILE FLOORING
09660.A1 09660.B1	VINYL COMPOSITION TILE VINYL TRANSITION STRIP
09678	PESILIENT WALL DASE AND ACCESSORIES
09678.E1	RESILIENT WALL BASE AND ACCESSORIES
/3U/O.L	RUBBER BASE (SIZE)
	PAINTING
09900 09900.A1	PAINT - SEE FINISH SCHED.

10100.CO MARKER BOARD

```
10425 SIGNS
10425.AO ROOM SIGNAGE
10425.A1 OIL SIGNAGE
10425.B1 WELDING SIGNAGE
10425.C1 ACCESSIBLE SIGNAGE
10425.D1 ACCESSIBLE/UNISEX RESTROOM SIGNAGE
           METAL LOCKERS AND STORAGE CABINETS
10500.AO METAL LOCKERS (WIDTH)
10500.B0 METAL STORAGE CABINETS
10522 FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES
10522.AO FIRE EXTINGUISHER
10800 TOILET AND BATH ACCESSORIES
 10800.B0 PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.B1 SEMI-RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE
10800.CO TOILET TISSUE DISPENSER
10800.C1 RECESSED TOILET TISSUE DISPENSER/SAN. NAP. DISPOSAL
10800.D0 MOP RACK
10800.E0 GRAB BAR
10800.E1 GRAB BAR (SHOWER)
10800.FO ROBE HOOK
10800.F1 DOUBLE PRONG ROBE HOOK
10800.HO SOAP DISPENSER
 10800.H1 SOAP DISH
10800.P1 SHOWER CURTAIN ROD
10800.P2 SHOWER CURTAIN
10800.R1 FRAMED MIRROR (SIZE)
10800.T1 FOLDING SHOWER SEAT
10800.TO METAL SHELF (SIZE)
DIVISION 11 EQUIPMENT
11151 MOBILE LIFT
11151.AO MOBILE LIFT - NIC - OWNER FURNISHED
DIVISION 12 FURNISHINGS
12511 HORIZONTAL LOUVER BLINDS
12511.AO HORIZONTAL LOUVER BLINDS
DIVISION 13 SPECIAL CONSTRUCTION
13125 METAL ARCH BUILDING SYSTEM
13125.AO METAL ARCH BUILDING SYSTEM
13125.BO STANDING SEAM METAL ROOF
13125.B1 STANDING SEAM METAL ROOF RIDGE
13125.B2 STANDING SEAM METAL CANOPY
13125.CO METAL RAIN GUTTER W/DOWNSPOUTS
13125.C1 METAL RAIN GUTTER
13125.C2 DOWNSPOUT
13125.C3 GUTTER STRAP, INSTALL AT EVERY OTHER PANEL RIB
13125.DO METAL FLASHING
13125.D1 METAL DRIP FLASHING
13125.D2 METAL HEAD FLASHING
13125.D3 METAL SILL FLASHING
13125.D4 METAL FLASHING, FINISH TO MATCH ROOF PANELS
13125.D5 RIDGE FLASHING, TO MATCH ROOF PANELS
13125.D6 DOOR HEAD FLASHING
13125.D7 JAMB FLASHING
13125.D8 CONTINUOUS PRE-FINISHED SHEET METAL CLOSURE
13125.EO METAL TRIM
13125.E1 JAMB TRIM
13125.E2 PANEL TRIM
13125.E3 RAKE TRIM
13125.E4 RAKE SLIDE
13125.E5 METAL EAVE CLOSURE
13125.E6 WALL CLOSURE
13125.E7 METAL OUTSIDE CLOSURE
13125.E8 CORNER TRIM
13125.E9 FRAMED OPENING HEADER
13125.FO METAL WALL PANEL
13125.F1 METAL WALL FASTENER
13125.F2 BLIND RIVET
13125.F3 POP RIVET
13125.GO STANDING SEAM METAL FACIA
13125.HO BREAK METAL
13125.H1 METAL ANGLE
13125.H2 HIGH RAKE SUPPORT ANGLE
13125.H3 RAKE ANGLE
13125.H4 4" x 4" CONT. ANGLE
13125.H5 BACKUP PLATE ANGLE
13125.H6 EAVE SUPPORT ANGLE
```

13125.H7 EAVE STRUT

```
13125 METAL ARCH BUILDING SYSTEM (CONT.)
 13125.JO STRUCTURAL MEMBER - PRIMED AND PAINTED
 13125.J1 STRUCTURAL GIRT - PAINTED
 13125.J2 ROOF PURLIN — PAINTED
 13125.J3 STRUCTURAL GIRT
 13125.K0 CLIP
 13125.K1 LOW PANEL CLIP
 13125.L1 STEEL COLUMN - PAINTED
13125.L2 STEEL COLUMN - GALV. - PAINTED
13125.L3 STEEL COLUMN - GALVANIZED
13125.L4 STEEL COLUMN - PRIMED AND PAINTED
13125.M1 STEEL BEAM - PAINTED
13125.M2 STEEL BEAM - GALV. - PAINTED
13125.M3 STEEL BEAM - GALVANIZED
13125.M4 STEEL BEAM - PRIMED AND PAINTED
13125.N1 ANCHOR
13125.N2 FASTENER (SPACING)
13125.P1 DOUBLE BEAD TAPE SEALER
13125.P2 SEALANT
13125.P3 THERMAL BREAK
13125.QO METAL VENT
13125.Q1 VENT MATERIAL
13125.RO INSULATION & VAPOR BARRIER (R-VALUE)
DIVISION 14 CONVEYING SYSTEMS
14620 TROLLEY HOIST
14620.A0 TROLLEY HOIST (SIZE) - RE: STRUCTURAL
DIVISION 15 EQUIPMENT
 15000 MECHANICAL
15050.A1 MECH. PENETRATIONS
15251.A1 PIPE INSULATION AT ALL EXPOSED PIPE
15410.AO URINAL
15410.A1 URINAL, ACCESSIBLE
15410.BO SINK FAUCET
15410.B1 SINK FAUCET W/ADA LEVER HANDLES
15410.CO UTILITY SINK
15410.D1 FLOOR SINK
15410.EO TRENCH DRAIN
15410.E1 DRAIN W/ SEDIMENT BUCKET
15410.E2 FLOOR DRAIN
15410.FO TOILET
15412.AO EMERGENCY SHWR & EYE WASH
15452.A1 DRINKING FOUNTAIN
15460.A1 GAS FIRED WATER HEATER
15490.AO WASTE OIL PUMP
15490.BO WASTE OIL CARTS
15490.CO WASTE OIL PIT
15490.D0 600 GAL WASTE OIL TANK - O.F.C.I.
15491.AO AIR COMPRESSOR
15491.BO OVERHEAD LUBE REEL
15491.CO OVERHEAD HOSE REEL
15600.AO NATURAL GAS RADIANT HEATING SYSTEM
15611.A1 PROPANE FIRED FURNACE
15838.AO EXHAUST FAN
15887.A1 LOUVER W/ BIRD SCREEN
DIVISION 16 ELECTRICAL
16442 PANELBOARDS
16442.AO ELECTRICAL PANEL
16510 INTERIOR LIGHTS
16510.AO INTERIOR LIGHTS
16520
            EXTERIOR LIGHTS
16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS
```

CLEARFIELD MAINTENANCE **FACILITY** STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

CLIENT

DESIGNER

PROFESSIONAL SEAL

ISSUE



1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION DFCM CONTRACT NO: 067477 DFCM PROJECT NO:

06034900 ARCHIPLEX PROJECT NO: 0609.01 K. PHILLIPS DRAWN BY: R. STANISLAW CHECKED BY: NONE SCALE: DATE: DECEMBER 8, 2006 **KEY PLAN** 

SHEET TITLE

MASTER KEYNOTE LIST

G002

- Utah Department of Transportation, DFCM and the Architect have jurisdiction over this project. Contractor shall obtain all necessary permits and business licenses prior to construction. Permits shall include, but not be limited to water, sewer, curb & gutter, storm water and grading.
   Contractor is responsible for dust abatement and any liability issues related to dust at any location which may be caused by this project.
   The Contractor is responsible for traffic control and protection of pedestrians in and around this work. Reference the manual on uniform traffic control devices (MUTCD latest edition for work zone traffic control). Warning and/or danger signs shall be required. Such flagmen or personnel as is necessary shall be readily available, especially when loaded or unloaded trucks- equipment are ingressing or egressing onto the job site. The contractor shall use the suggested traffic control plan, if included in plans, or submit a plan of his/her own for approval by the Engineer and/or the Owner and other regulator agencies.
- 4. Any work done within a public right-of-way shall be coordinated with the appropriate transportation agency and shall meet the requirements of that agency and, in particular, requirements of any right-of-way special use permit, or other permit. All work shall meet current OSHA requirements.
- 5. Where work is performed on easements, the contractor shall take every precaution to eliminate any adverse effects on the adjacent property and/or to restore it to its original condition.
- 6. All distances and data shall be checked by the contractor prior to the start of construction. In case of conflict the engineer shall be notified immediately so that clarification may be made prior to the start of the work.
- 7. The contractor shall be responsible for disposal and fees of all materials removed or demolished on site.
- 8. The Contractor shall arrange for, secure and pay for directly, any and all temporary utility supplies it may require for prosecution of its work. The cost of such utilities shall be included in the appropriate bid item with which it is associated.
- 9. Should construction be halted because of inclement weather conditions, the Contractor will completely clean up all areas and maintain the surface in good condition during the shut-down period. No excavation in paved streets will be allowed if weather conditions do not permit repaying of the pipeline trench.
- 10. The Contractor's personnel, equipment, and operations shall comply fully with all applicable standards, regulations, and requirements of existing Federal, Utah State, and Local governmental agencies.
   11. No person shall be cut off from access to his residence or place of business for a period exceeding eight (8) hours, unless the Contractor has made special arrangements with the affected persons prior to
- commencing work in the area.

  12. The Contractor shall preserve existing City, County, State, and Federal land monuments whenever possible. If a monument must be moved the engineer shall be contacted 2 weeks prior to removal to
- moved the engineer shall be contacted 2 weeks prior to removal to arrange for relocation.

  13. The Contractor shall be responsible for obtaining all local, State, and Federal permits required for stormwater pollution prevention as a result of construction activities. When called for in the Contract Documents, the Contractor shall prepare a Stormwater Pollution Prevention Plan for approval by the Engineer. If the construction will disturb more than one
- acre, the Contractor shall obtain a copy of the U.S. Environmental Protection Agency's NPDES General Permit for Storm Water Discharges Associated with Construction Activity (otherwise known as the Construction General Permit or CGP) and submit a "Notice of Intent" (NOI)[EPA Form 3510-9 (6/03)] for permit coverage under the General Permit. The CGP may be found on the Internet at
- <http://www.epa.gov/npdes/stormwater/cgp> or by contacting the U.S.
  EPA Office of Water directly at (800) 424-4372. The NOI may be filed electronically at the following website:
- <http://cfpub.epa.gov/npdes/stormwater/enoi.cfm>. The CGP does not relieve the Contractor from compliance with other regulations or contract requirements regarding stormwater pollution prevention including but not limited to: protection of surface waters, prevention of soil runoff into drains, dust control, prevention of tracking soils to adjacent streets, fuel containment, spill control, etc.

## **EXISTING UTILITES**

1. Approximate locations of utilities are shown on the plans. They are to be used for general information only. It is the responsibility of the contractor to notify the appropriate utility companies when construction might interfere with normal operation of any utilities. It shall also be the contractor's responsibility to have the appropriate utility company field-locate any utility installations which might be affected by construction prior to beginning work in that area. The contractor shall be responsible for maintaining service of existing utilities and for restoring any utilities damaged due to construction at no additional cost to the owner. Depths and elevations of utilities are unknown unless otherwise shown. Contractor shall field verify utility depths, elevations, any discrepancies and/or conflicts shall be brought to the attention of the Engineer immediately.

## INSPECTIONS AND TESTING

result of his workmanship.

- 1. The Owner shall be responsible for all materials testing including but not limited to concrete, asphalt, compaction, sewer and water. All tests shall meet minimum Engineer requirements. See the contract documents and drawings for frequency of testing. Results are to be delivered to Special Inspector, Owner and Architect.
- delivered to Special Inspector, Owner and Architect.

  2. Pressure, deflection and other tests relating to pipeline installation
- shall be paid for and performed by the Contractor.

  3. The Contractor is responsible to coordinate with Architect and Special Inspector for inspections of work at appropriate intervals. It shall be the Contractor's responsibility to pay for additional inspections that are the
- 4. The Contractor is responsible for sewage & drainage tests.

## TRENCH EXCAVATION AND BACKFILL - Unless noted otherwise in the Project Specifications, these requirements apply.

- 1. Barriers shall be placed at each end of all excavations and at such places as may be necessary along excavations to warn all pedestrians and vehicular traffic of such excavations. Lights shall also be placed along excavations from one hour before sunset each day to one hour after sunrise of the next day until such excavations are entirely refilled, compacted, and surfaced or final graded. All excavations shall be barricaded in such a manner as to prevent persons from falling, walking, or otherwise entering any excavation in any street, roadway, parking lot, treatment plant or any other area, public or private.
- 2. Excavations shall be sheeted, braced, and shored as required to support the walls of the excavations, to eliminate sliding and settling and as may be required to protect the workmen, the work in progress, and existing utilities, structures and improvements. All such sheeting, bracing, and shoring shall comply with the requirements of the Utah State Industrial Commission, Occupational Safety and Health Act (OSHA), and accident prevention and safety provisions of the contract.
  3. All trenches shall be kept free from water during excavation, fine grading, pipe laying and jointing, and pipe embedment operations.
- 4. No sanitary sewer shall be used for disposal of trench water. Surface water shall be prevented from entering trenches.
  5. All backfill and compaction shall be completed within a maximum
- distance of 200 feet behind the end of newly installed pipe.
  6. Excavation shall be not more that 200 feet ahead of the newly installed pipe. The Contractor shall restore the asphalt surface where the utilities cross existing asphalt.
- 7. The minimum clear trench width at the horizontal diameter of the pipe must not be less than the outside diameter of the pipe plus twelve-inches (12").
- 8. Gradation. Imported granular material shall conform to the following gradation specifications:

#### **Granular Foundation Material:**

One hundred percent passing a one-inch screen and five percent passing a one/half-inch screen.

#### Granular Bedding Material:

Ductile iron or concrete pipe - One hundred percent (100%) passing a one-inch screen and five percent passing a No. 4 sieve.

PVC pipe - One hundred percent passing a three/quarter-inch screen and five percent passing a No. 4 sieve.

Copper tubing/PE pipe - One hundred percent passing a No. 4 sieve and eight percent passing a No. 200 sieve.

## Granular Backfill material:

One hundred percent passing a three-inch square sieve and fifteen percent passing a No. 200 mesh sieve.

- 9. Under pavements or other surface improvements the in-place density shall be a minimum of ninety-six percent (96%) of laboratory standard maximum dry density as determined by AASHTO T-99. In shoulders and other areas the in-place density shall be a minimum of ninety percent (90%) of the maximum dry density as determined by AASHTO T-99. The backfill in the trenches shall be either compacted or consolidated according to the requirements of the materials being placed
- 10. Where compaction methods are used, the material shall be placed at a moisture content and un-compacted lift thickness such that after compaction the required relative densities will be produced. In no event will the material be placed in lifts which, prior to compaction, exceed eight inches (8").

## PIPE-GENERAL

- 1. All pipe lines are to be located as shown on the plans unless relocated in the field by the Engineer to evoid unforced unforced unforced.
- in the field by the Engineer to avoid unforeseen utility interference.

  2. Minimum clearance between new pipelines and existing utilities and
- structures (except sewers) shall be two feet horizontally.

  3. Contractor shall provide all necessary fittings, hardware, labor, etc. To construct vertical and horizontal bends in pipe as needed to meet the
- required grade, alignment, and cover requirements.

  4. For connections to existing sewer lines, contractor shall field verify all pipe diameters, pipe materials, and appurtances for confirmation of the
- required fittings prior to ordering fittings.

  5. Dimensions to pipelines are to centerline unless otherwise noted.

  6. Distances shown along pipelines are horizontal distances and not pipe
- 6. Distances shown along pipelines are nonzontal distances and not pipelingth.7. Wherever the subgrade material does not afford a sufficiently solid foundation to support the pipe and superimposed load, or where groundwater must be drained, the subgrade shall be excavated to such
- Material.

  8. All pipe shall be protected from lateral displacement and possible damage resulting from impact or unbalanced loading during backfilling operations by being adequately bedded.

depth as may be necessary and replaced with Gravel Foundation

- 9. Where applicable, bell holes shall be excavated so that only the barrel of the pipe receives bearing from the trench bottom.
- 10. In the event trench materials are not satisfactory for pipe bedding, modified bedding will be required. Modified bedding shall consist of placing compacted granular material on each side of and to the level of twelve-inches (12") above the top of the pipe.

### PIPE FITTINGS

- All pipe fittings shall conform to AWWA standards.
   All buried valves shall be installed complete with two-piece, cast iron, screw type, 5-1/4-inch shaft valve box with lid. The lid shall have the
- word "Water" cast in the metal.

  3. All valve boxes in paved areas shall contain a concrete 6" thick concrete collar 24 inches larger in diameter than the valve box. This collar shall contain (1) #4 rebar at the center of the collar.

### PRESSURE PIPE

manipulation of the existing water system with the engineer and city. Coordinate connections to the water system with Frank May, UDOT Maintenance Shed Foreman, (435) 730-1606.

2. Minimum depth of cover for culinary water lines unless otherwise shown on the plans shall be four (4) feet.

1. Contractor shall coordinate all live taps and any other work on or

3. All pipe shall include a 3-inch magnetic locator tape installed in the pipeline trench approximately 12-inches below the ground surface. Identification tape shall be furnished with white or black printing on an approved colored field having the words:

## **CAUTION: UTILITY DESCRIPTION - BELOW.**

- 4. All gate valves shall be located near to tees or crosses and their associated reducers as shown on the project plans.
- 5. Thrust blocking shall be applied at all tees, valves, plugs, caps and at bends deflecting 11 1/4 degrees or more. The fitting shall be encased in a protective plastic wrap before the thrust block is poured. Reaction blocking shall be concrete having a compressive strength of not less than 3000 pounds per square inch at 28 days. Blocking shall be placed between undisturbed soil and the fitting to be anchored. The area of bearing on the pipe and on the ground shall be as shown in the Drawings. The blocking shall be so placed that the pipe and the fittings will be accessible for repair.
- 6. There shall be 10 feet minimum of horizontal separation distance between all new water lines and new sewer lines. Exceptions occur where service lines are installed in a common trench and at crossings. Building water and sewer services may be installed in the same trench if it is placed on a solid shelf excavated at one side of the common trench. A minimum of 12 inches of vertical separation shall be maintained at all locations. Joints in water pipe should be 10 feet from crossings with sewer. Sewer within 10 feet of such crossings shall be mechanical joint cast iron or equal.
- 7. All crosses and tees shall be installed with the branches having the size of the largest intersecting pipe unless otherwise shown. The connections to smaller lines shall then be made by means of reducers from the tee or cross, unless otherwise shown on plans.
- 8. All air release and combination air valves shall be installed at the crest of the vertical curvature of the water line. Contractor shall record actual field stationing on record drawings.
- 9. All pipe shall be pressure tested as required in the specifications.10. Culinary water lines shall be disinfected per the specifications and AWWA requirements.

## **GRAVITY PIPE**

- 1. Minimum depth of cover for sewer lines unless otherwise shown on the plans shall be four (4) feet.
- 2. All concrete pipe shall be installed accurately to the defined line and grade shown on the plans. Pipe shall be laid in a straight horizontal and vertical line between manholes or junction boxes.
- 3. Gravity pipe lines shall be tested per the specifications.4. Install pipe downstream to upstream.

## MISCELLENEOUS UTILITES

- All utility conduits shall be schedule 40 with long sweeps.
   All utilities shall be buried a minimum of 36 inches below finished
- 3. All phone and communication lines to be placed in conduit under paved surfaces unless noted on the plans
- 4. Direct bury telephone and communication lines shall be surrounded by 6 inches of sand.
- 5. A minimum clearance of 24 inches shall be maintained between power conduits and other communication utilities.6. Install a pull string with a 800 # capacity in all blank conduits.

## EARTHWORK

- 1. The material shall be deposited in horizontal layers having a thickness of not more than eight inches prior to being compacted as hereinafter specified;
- 2. The moisture of compacted material shall be controlled at two percent plus or minus of the optimum moisture as determined by AASHTO T-180.
  3. When the material has been conditioned as hereinbefore specified,
- the backfill or embankment shall be compacted as follows:

  (a) Under roadways and extending one foot beyond the proposed back of walk, the fill or embankment material shall be compacted to a density equal to not less than 96% of maximum dry density as measured by
- AASHTO T-180.

  (b) Under sidewalks and drive approaches the fill or embankment material (to at least one foot each side of the edge of the slab) shall be compacted to a density equal to not less than 96% of maximum dry density, as measured by AASHTO T-180.
- (c) Other fills and embankments not listed above shall be compacted to a density equal to not less than 90% of maximum dry density, as measured by AASHTO T-180.

## CONCRETE

- All concrete required on this project shall be as noted in section 3300 of the project specification or other mix design approved by engineer.
   Portland cement shall be Type II and shall comply with the Standard
- Specification for Portland Cement, ASTM C-150.

  3. Deformed Billet-Steel Bars for Concrete Reinforcement (Grade 40 or Crede 60). ASTM Designation A 615.
- Grade 60) ASTM Designation A-615.

  4. All bars shall be of the size specified and shall be placed in the
- positions shown on the Drawings in such a manner as to be firmly held during the placing of the concrete. Where not otherwise indicated, minimum clearance and cover as required by the ACI 318 Code, latest edition.
- 5. Metal ties or anchorages within the forms shall be equipped with cones, she-bolts or other devices that permit their removal to a depth of at least one inch without injury to the concrete.
- 6. All edges that will be exposed to view when the structure is completed shall be chamfered by placing molding in the forms, unless finishing with molding tools.

### **CONCRETE FINISH**

- 1. All exposed vertical exposed surfaces shall receive a sack rubbed
- 2. All non-exposed vertical exposed surfaces shall have ties and forming devices removed and remaining holes packed with a cement mortar mix.3. All exposed horizontal surfaces on the concrete shall be accurately screeded to grade, floated, then broom finished, unless specified otherwise.
- 4. Joints and edges on unformed surfaces that will be exposed to view shall be chamfered or finished with molding tools.
  5. Concrete shall not be mixed nor placed when the daily minimum atmospheric temperature is less than 40 degrees unless facilities are provided to prevent the concrete from freezing. The use of accelerators or antifreeze compounds will not be allowed.

### SURFACE IMPROVEMENTS

- 1. The contractor shall retain and protect or remove and replace all landscaping, trees, utilities, ditches, culverts, fences, mailboxes, signs, lightpoles, headgates, existing concrete sidewalks, approaches, curb & gutter and other miscellaneous items. Any damage done by the contractor shall be repaired at his expense.
- 2. Construction of curb, gutter and sidewalk shall follow installation of storm drain/utilities improvement. Preparation of the area to be paved shall follow completion of the curb, gutter and sidewalk.
- 3. Sidewalk, curb and gutter, and concrete driveways shall be saw-cut vertically along the lines forming the mainline trench, in such a manner as to not cause damage to adjoining improvements.
- 4. Materials used for repair or replacement of surface improvements shall be equal to or better than the material removed.
- Where trenches are in or cross surfaced roads, traffic lanes, driveways, or parking areas, the surface shall be removed, maintained, and restored to original condition or better.
- 6. All edges of trenches in paved areas shall be sawcut a minimum of 6 inches wider than the width disturbed by the trench excavation prior to placing asphalt patch.
- 7. Stockpiled topsoil shall be placed over areas disturbed by construction activities
- 8. The Contractor shall grade the site to the finished contours shown on the Drawings. The Contractor shall run a track dozer or loader up and down the slopes to create longitudinal depressions in the finished surface to resist erosion and assist seed germination.
- 9. On sloping hillsides, contractor shall take precautions to mitigate possible erosion problems in the trench from storm water that might occur during or after construction.
- 10. The Contractor shall revegetate the areas on which topsoil has been placed.

## PAVEMENT CONSTRUCTION

- 1. The Contractor is responsible for the disposal of paving material to be removed from the site. The Contractor shall be responsible to obtain a site permit and any permits or other approvals necessary for disposal of
- the excess material.

  2. The granular material shall be placed and compacted to not less than 96% maximum dry density as determined by AASHTO T-180.

  3. The finished compacted pavement shall have a density of 91%
- with ASTM D-2041), as determined by ASTM D2170.4. The contractor is to sawcut asphalt edges immediately prior to paving or patching.

minimum, (no test less than 91% of the density determined in accordance

## <u>SIGNING</u>

- All signing to be per UDOT Specification Section 2891
   Sign panels to be reflective sheeting on aluminum.
- 3. Legend to be reflective also.4. Post to be 2" perforated 12 gauage stee
- 4. Post to be 2" perforated 12 gauage steel.5. Install per detail on drawings.

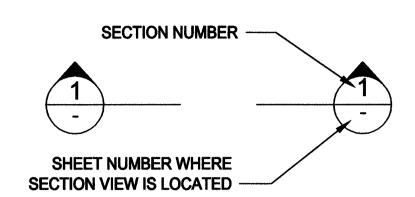
## PAVEMENT MARKINGS

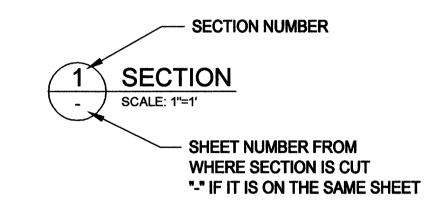
Traffic paint to be acrylic latex for uncured paving (7 days old) and alkyd or chlorinated rubber for cured paving. (3 months old)
 Apply at 180 sq. ft. / gallon for 2 coats.

## SECTION AND DETAIL IDENTIFIERS

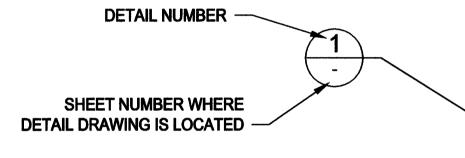
# NOTE: A DASH MAY BE PLACED IN THE LOWER PORTION OF THE IDENTIFIER IF THE DETAIL DRAWING OR SECTION VIEW IS LOCATED ON THE SAME SHEET.

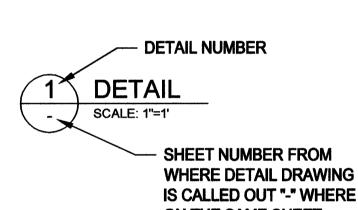
## SECTION IDENTIFICATION





## **DETAIL IDENTIFICATION**





UTILITY CONTACT INFORMATION				
ENTITY	CONTACT PERSON	PHONE		
Clearfield Public Works	Scott Hodge	(801) 525-2788		
Davis County Environmental Health	Carl Shupe	(801) 451-3296		
State of Utah DAS Fuel Network (Fuel Island)	Steve Canning	(801) 619-7232		
UDOT Shed Foreman	Kevin Welsh	(801) 940-0829		

## LINE LEGEND

NEW	EXISTING	CENTERLINE
		PROPERTY LINE
	manufar Andreador Politicador del Contractor del Co	
	4352	
CW	CW	CULINARY_WATER
SW	sw	SECONDARY_WATER
	E	ELECTRIC
OHP	OHP	OVERHEAD_POWER
UP	——————————————————————————————————————	UNDERGROUND_POWER
GAS	GAS	GAS_LINE
	SS	SANITARY_SEWER
SD	SD	STORM_DRAIN
T	T	TELEPHONE
UT		UNDERGROUND_TELEPHON
F	F	FIBER_OPTICS
IRR	IRR	IRRIGATION
LD	LD	LAND_DRAIN
TV	TV	CABLE_TV
		DITCH
<del></del>	<del></del>	CHAINLINK_FENCE
X	X	BARBWIRE_FENCE
		GUARD RAIL
		EDGE OF ASPHALT
+++++++++	+++++++++++++++++++++++++++++++++++++++	RAILROAD

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424
2001 EAST 700 SOUTH

DESIGNER

CLIENT



CLEARFIELD, UTAH 84015

architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

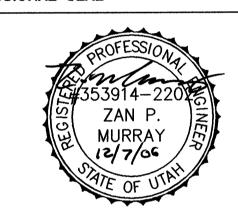
CONSULTANTS



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL



ISSUE

12/08/06 CONSTRUCTION DOCUMENTS

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: MJW

CHECKED BY: ZPM

SCALE: N.T.S.

DATE: DECEMBER 8, 2006

08/28/06 95% DESIGN SUBMITTAL

07/17/06 60% DESIGN SUBMITTAL

SHEET TITLE

KEY PLAN

**CIVIL NOTES** 



- 1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
- 2. CONTRACTOR TO OBTAIN A DEMOLITION PERMIT FROM STATE OF UTAH PRIOR TO DEMOLITION OF BUILDING.
- 3. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK
- 5. SAWCUT ALL ASPHALT TO REMAIN 6" FROM EDGE OF SUBBASE DISTURBANCE.
- 6. LOCATION AND SIZE OF EXISTING UTILITIES IS APPROXIMATE.
- 7. PROTECT ALL EXISTING UTILITIES THAT ARE TO STAY IN PLACE.

## KEY NOTES: O

- 1. MOVE LOADING RAMP (BY OTHERS).
- 2. SAW CUT AND REMOVE EXISTING APPROXIMATELY 38,370 S.F. OF ASPHALT (HATCHED AREA).
- 3. COMPLETELY REMOVE AND DISPOSE OF EXISTING WASTE OIL TANK AND CONCRETE ENCLOSURE. DISPOSAL TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS.
- 4. RELOCATE EXISTING FUEL VAULT (COORDINATE WITH STATE OF UTAH DAS. SEE SHEET C102 FOR FINAL LOCATION.
- 5. REMOVE POWERPOLES AND POWERLINE.
- 6. REMOVE OPEN STORAGE FOUNDATION (BUILDING RELOCATED BY OTHERS).
- 7. REMOVE LAB FOUNDATION (BUILDING RELOCATED BY OTHERS) .
- 8. DISCONNECT AND CAP OR REMOVE UNDERGROUND POWER (2 PLACES).
- 9. REMOVE SECTION OF EXISTING WATERLINE AND CAP NEAR EXISTING BUILDING.
- 10. RELOCATE (1) SHED AND (2) POLY TANKS. SEE SHEET C102 FOR LOCATION
- 11. DISCONNECT AND CAP PORTION OF EXISTING WATER SERVICE AFTER NEW SERVICE LINE IS FUNCTIONAL.
- 12. ABANDON SEPTIC TANK AND ABSORPTION FIELD.



REMOVE ASPHALT

CLIENT

## CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

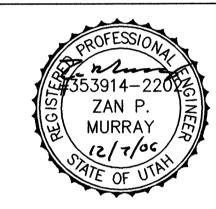
CONSULTANTS



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL

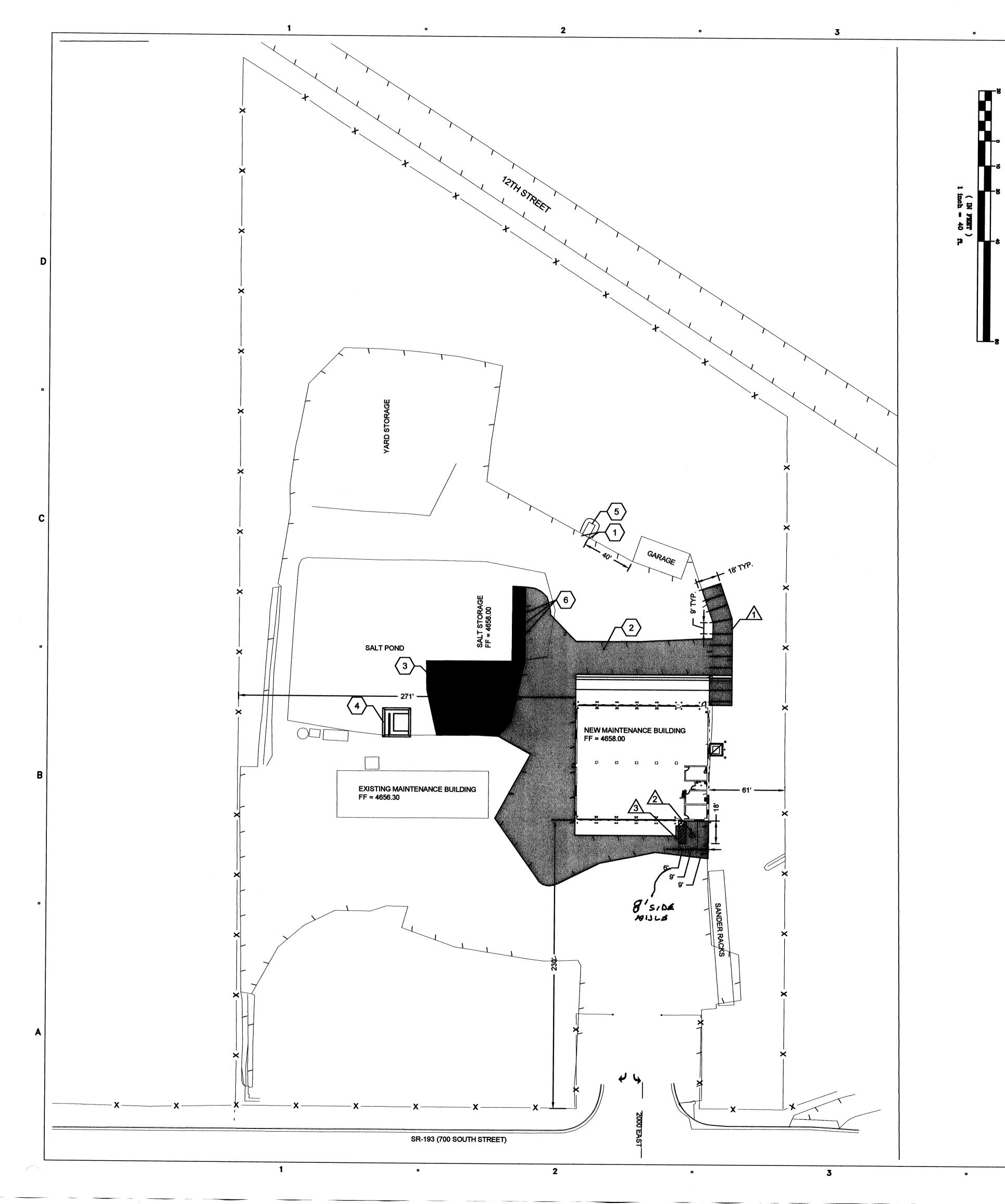


12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	MJW
CHECKED BY:	ZPM
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

**DEMOLITION PLAN** 



1. ALL WORK TO COMPLY WITH STATE REGULATIONS.

2. COMPLY WITH ALL OSHA REGULATIONS DURING SITE WORK.

3. STRIPE PER SPECIFICATIONS AND NOTES ON COO1.

KEY NOTES:

1. INSTALL CONCRETE BOLLARD AS PER DETAIL B2/AE502.

2. INSTALL ASPHALT IN SHADED AREA AS PER SECTION A/C501. APPROXIMATELY 17,000 S.F. SEE UTILITY PLAN AND SECTION E/C501 FOR ASPHALT REQUIREMENTS OVER UTILITY TRENCHES.

3. INSTALL ZERO VOIDS ASPHALT IN DARK SHADED AREA PER SECTION A/501. APPROXIMATELY 4730 S.F. SEE UTILITY PLAN AND SECTION E/C501 FOR ASPHALT REQUIREMENTS OVER UTILITY TRENCHES.

4. WASH RACK.

5. NEW LOCATION FOR FUEL VAULT. PROVIDE 7'X12', 8" CONCRETE PAD WITH #4 BAR © 12" O.C.

6. NEW LOCATION OF (1) SHED AND (2) POLY TANKS.

STRIPING NOTES: 

1. 4" YELLOW STRIPE (TYP)

2. HANDICAP SYMBOL

5

3. 4" YELLOW HASHING (24" SPACING, 45" ANGLE)



ASPHALT

ZERO VOIDS ASPHALT

CLIENT

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

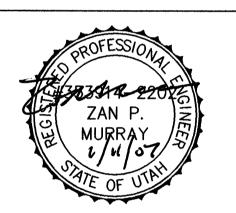
**CONSULTANTS** 



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL



12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

07/17/06 60% DESIGN SUBMITTAL

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: MJW

CHECKED BY: ZPM

SCALE: AS SHOWN

DATE: DECEMBER 8, 2006

KEY PLAN

ISSUE

SHEET TITLE

SITE PLAN



1. ALL WORK TO COMPLY WITH STATE REGULATIONS.

2. ALL ACCESSABLE ROUTES TO CONFORM TO ADA STANDARDS, LATEST EDITION.

3. ALL CONCRETE AND ASPHALT THAT ABUTS THE NEW BUILDING HAS A STARTING TOP OF SURFACE ELEVATION OF 4658.00 AND SLOPES AWAY FROM THE BUILDING AS SHOWN ON THE PLAN.

## KEY NOTES: ○

1. GRADING UNDER NEW ASPHALT AS PER CIVIL SPECIFICATIONS

2. INSTALL CONCRETE CROSS DRAIN AS PER SECTION B/C501. EXTEND CONCRETE APRON SHOW ON ARCHITECTURAL PLAN 8' TO EDGE OF CROSS DRAIN.

3. DRAINAGE SWALE PER SECTION E/C501 (LINE WITH 1" ROCK). MIN. SLOPE = 0.5%. DAYLIGHT TO EXISTING GRADE.

4. LOW POINT IN GRADE.

# BUILDING COORDINATE TABLE:

POINT	NORTHING	EASTING	ELEVATION
C.P. #1	198,085.94	85,860.42	
C.P. #2	198,347.92	85,976.46	
B.C. #1	198,304.81	86,045.40	
B.C. #2	198,304.81	86,152.73	
B.C. #3	198,397.14	86,045.40	
B.C. #4	198,397.14	86,152.73	
*S.S.C. #1	198,490.15	85,944.55	
*S.S.C. #2	198,490.15	85,992.05	,
*S.S.C. #3	198,431.40	85,944.55	
*S.S.C. #4	198,431.40	85,992.05	
TOA #1	198,491.40	85,994.38	MATCH EX.
TOA #2	198,490.84	86,004.62	MATCH EX.
TOA #3	198,431.45	86,004.58	4658.00
TOA #4	198,382.50	85,993.68	4657.60
TOA #5	198,371.45	85,983.24	MATCH EX
TOA #6	198,371.97	85,933.92	MATCH EX.
TOA #7	198,408.22	85,925.77	MATCH EX.
TOA #8	198,431.34	85,925.45	MATCH EX.
TOA #9	198,468.85	86,024.61	MATCH EX.
TOA #10	198,447.62	86,045.40	MATCH EX.
TOA #11	198,450.62	86,155.16	MATCH EX.
TOA #12	198,489.58	86,146.10	MATCH EX.
TOA #13	198,494.69	86,160.96	4659.00
TOA #14	198,466.28	86,170.49	4658.92
TOA #15	198,397.14	86,170.73	4657.14
TOA #16	198,397.14	86,152.73	4657.94
TOA #17	198,304.81	86,152.73	4658.00
TOA #18	198,274.73	86,152.38	MATCH EX.
TOA #19	198,279.39	86,110.24	MATCH EX.
TOA #20	198,270.60	86,065.79	MATCH EX.
TOA #21	198,252.48	86,022.86	MATCH EX.
TOA #22	198,305.96	85,980.84	MATCH EX.
TOA #23	198,357.01	86,009.22	MATCH EX.
TOA #24	198,456.40	86,170.73	4658.93
TOC #1	198,421.14	86,152.73	4657.17
TOC #2	198,421.14	86,045.40	4657.80
TOC #3	198,292.81	86,045.40	4657.76
IOO FO			

\* S.S.C. POINTS ARE TO INSIDE OF CONCRETE WALL

## **ABREVIATIONS:**

TOA - TOP OF ASPHALT

TOC - TOP OF CONCRETE

 ${\bf TOW\,-\,TOP\,\,OF\,\,SIDEWALK}$ 

C.P. - CONTROL POINT

B.C. - BUILDING CORNER

S.S.C. - SALT STORAGE CORNER

CLIENT

## CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

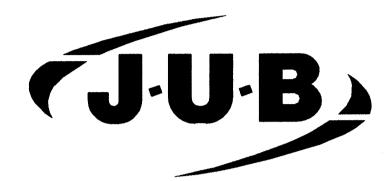
DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

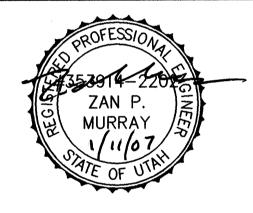
CONSULTANTS



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL



12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: MJW

CHECKED BY: ZPM

SCALE: AS SHOWN

DECEMBER 8, 2006

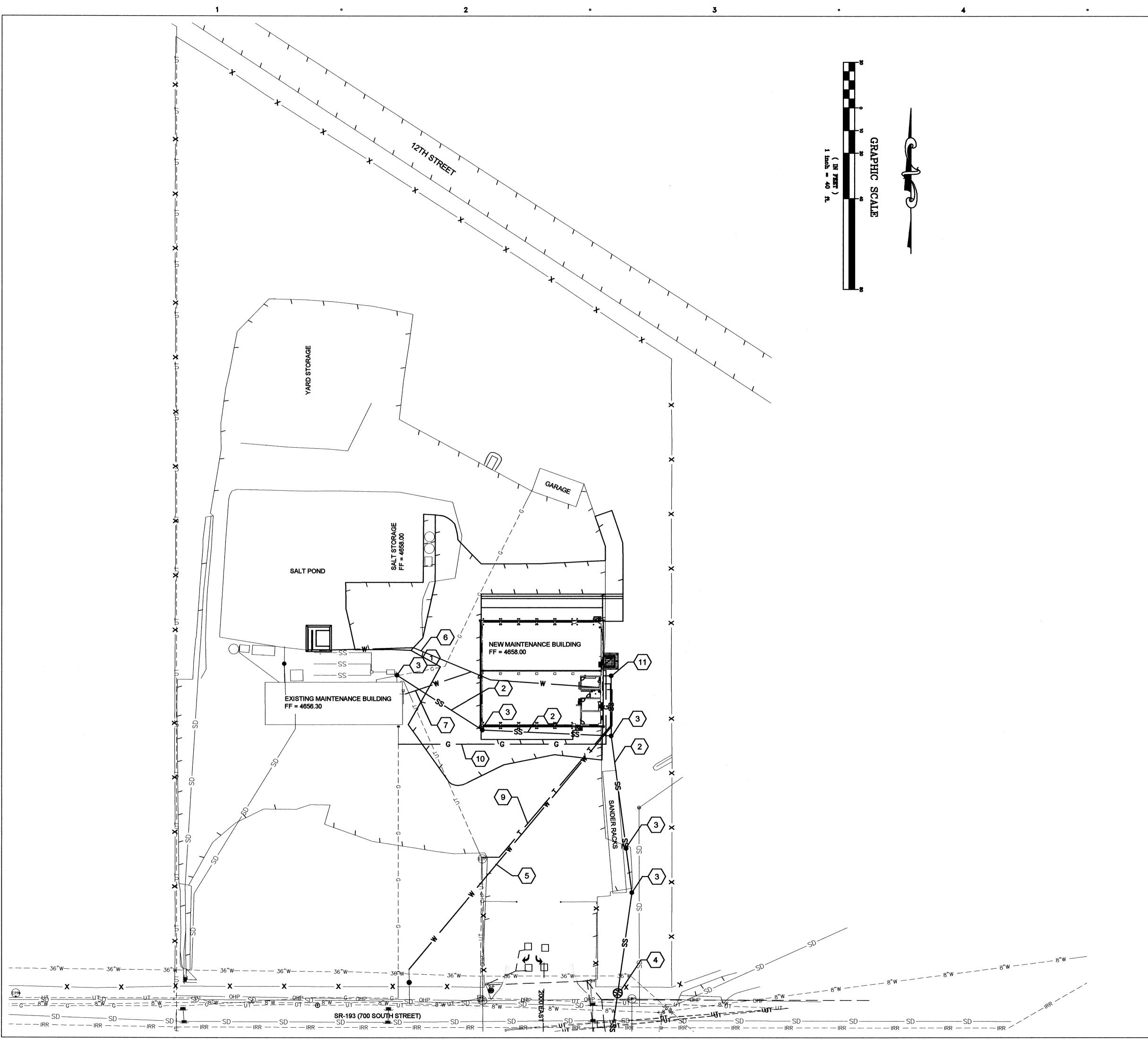
KEY PLAN

DATE:

ISSUE

SHEET TITLE

GRADING PLAN



- 1. ALL WORK TO COMPLY WITH STATE REGULATIONS.
- 2. ALL WORK TO COMPLY WITH THE INTERNATIONAL CODES 2003 EDITION.
- 3. ALL WATER LINES TO HAVE A MINIMUM OF 4'
- EXCAVATION.
- 5. SEE DRAWING E100 FOR ELECTRICAL SITE PLAN.

BUILDING SEWER.

- 2. 4" PVC SEWER LINE. MIN. SLOPE = 2%.
- 501. MAX SPACING = 100'.
- 4. CONNECT TO NEW MANHOLE (SEE SHEET C401 FOR NEW SEWER CONNECTION AND MANHOLE INSTALLATION).
- 5. 2" PVC WATERLINE FROM METER TO NEW BUILDING.
- 6. 2" PVC WATERLINE FROM BOOSTER PUMP TO WASH RACK. PROVIDE STOP AND WASTE AT WASH RACK LOCATION.
- 7. ¾" WATERLINE TO EXISTING BUILDING.
- 8. NOT USED.
- 9. PHONE LINE TO NEW BUILDING.
- 11. SAMPLING MANHOLE FOR SAND/OIL SEPARATOR (SEE MECHANICAL DRAWING)

- 4. LOCATIONS OF ALL UTILITIES ARE APPROXIMATE. FIELD VERIFICATION SHOULD OCCUR PRIOR TO

## KEY NOTES:○

1. CONNECT NEW SEWER LINE TO EXISTING

- 3. INSTALL CLEANOUT PER DETAIL 3 ON SHEET

- 10. GAS LINE TO NEW BUILDING.

CLIENT

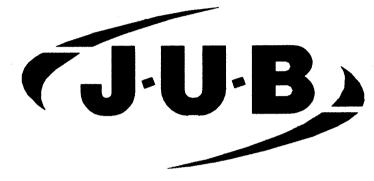
CLEARFIELD MAINTENANCE **FACILITY** STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture - planning - design services 1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

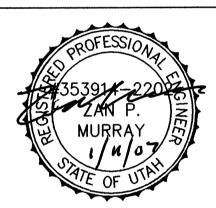
CONSULTANTS



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL

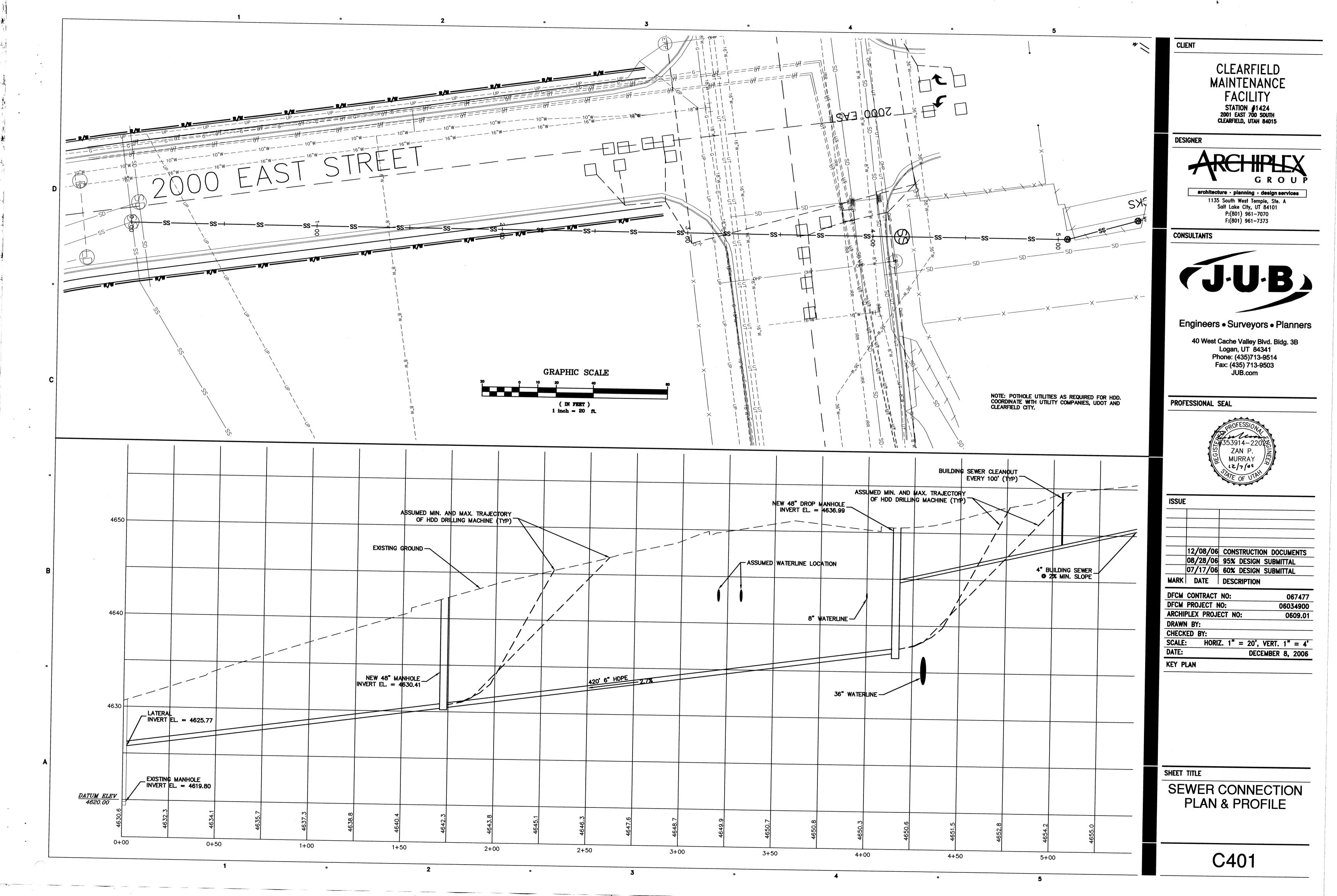


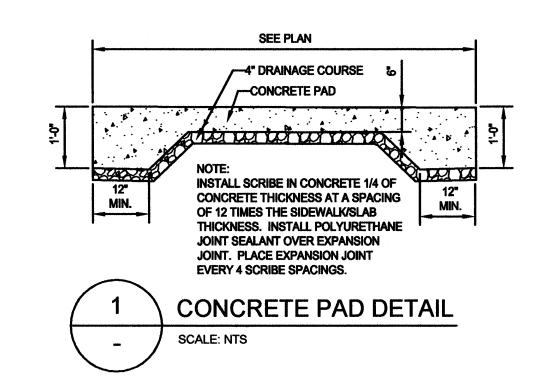
12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

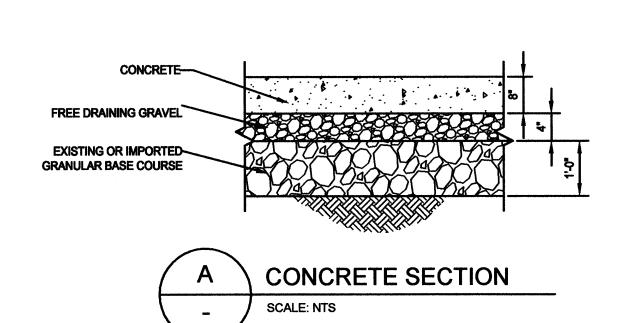
067477
06034900
0609.01
MJW
ZPM
AS SHOWN
DECEMBER 8, 2006

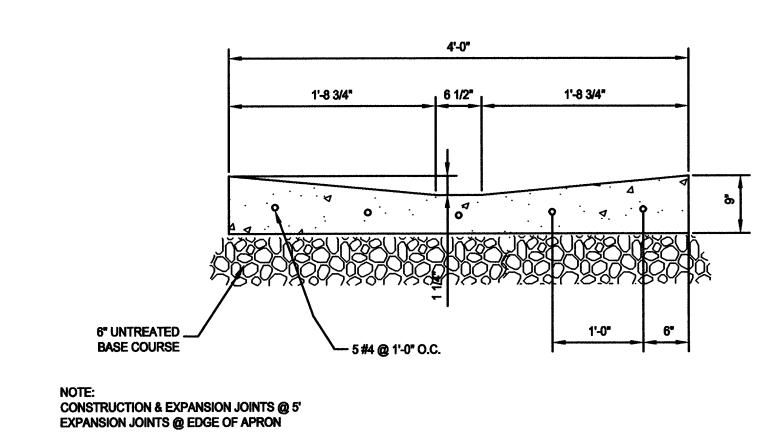
SHEET TITLE

**UTILITY PLAN** 

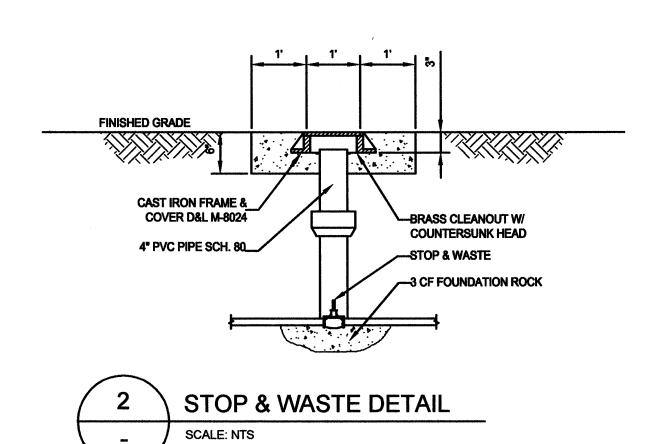


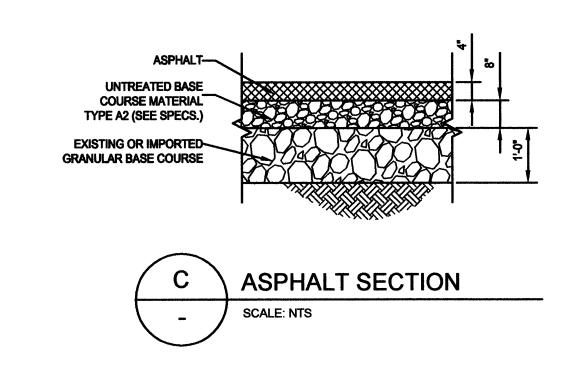


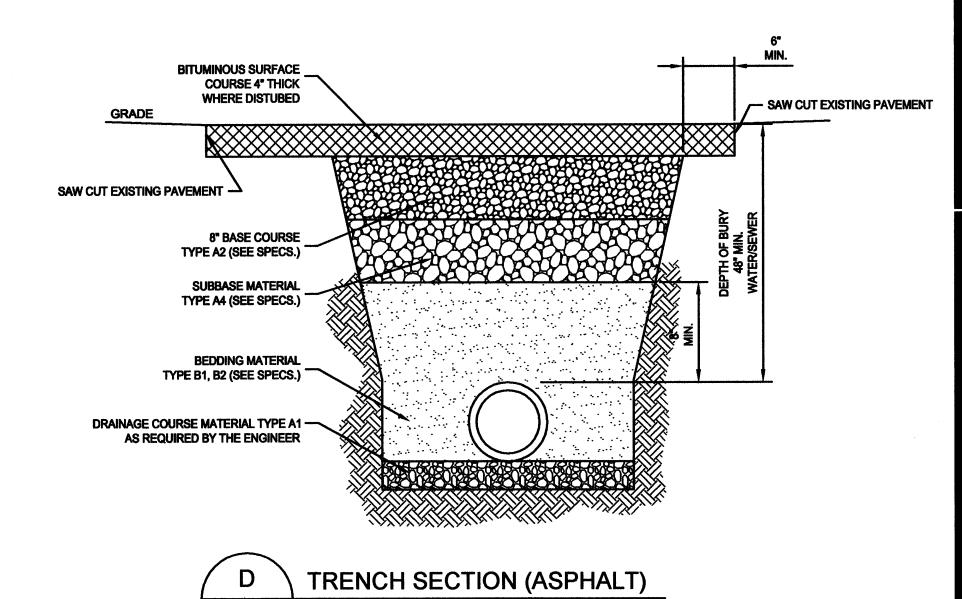




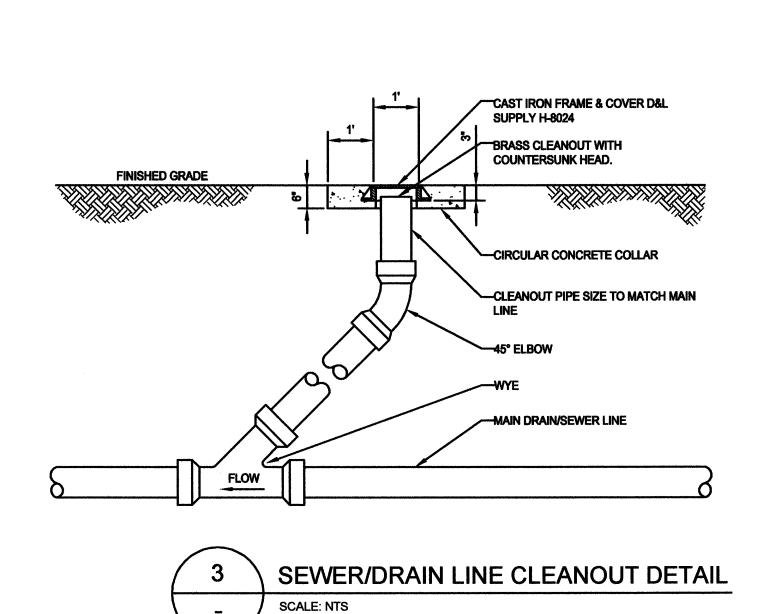


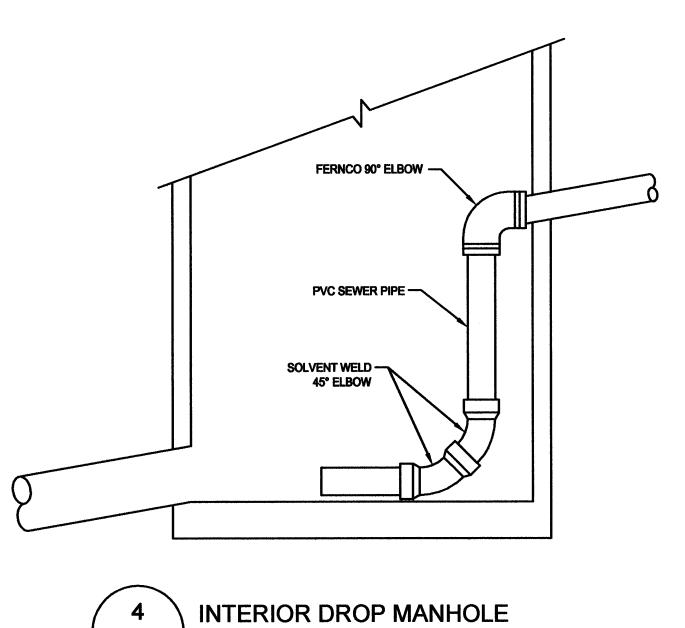




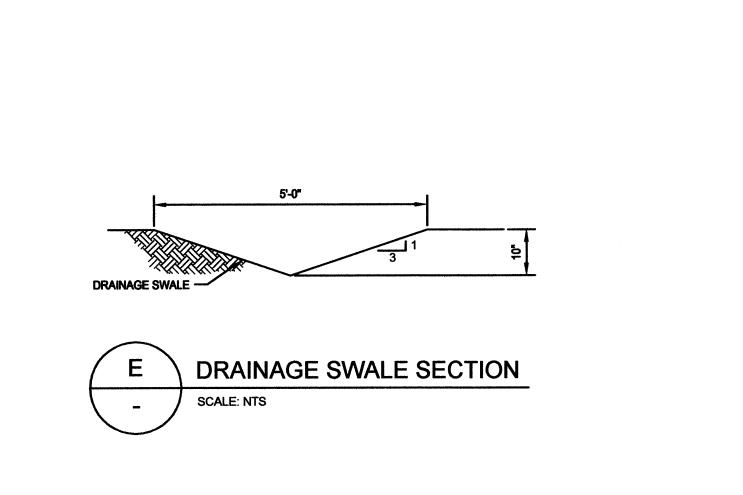


SCALE: NTS





SCALE: NTS



CLEARFIELD

MAINTENANCE

FACILITY

FACILITY

STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

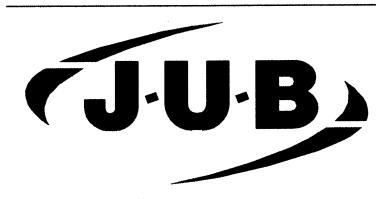
DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

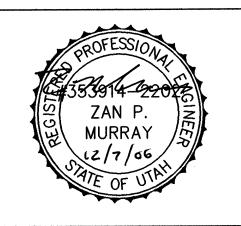
CONSULTANTS



Engineers • Surveyors • Planners

40 West Cache Valley Blvd. Bldg. 3B Logan, UT 84341 Phone: (435)713-9514 Fax: (435) 713-9503 JUB.com

PROFESSIONAL SEAL

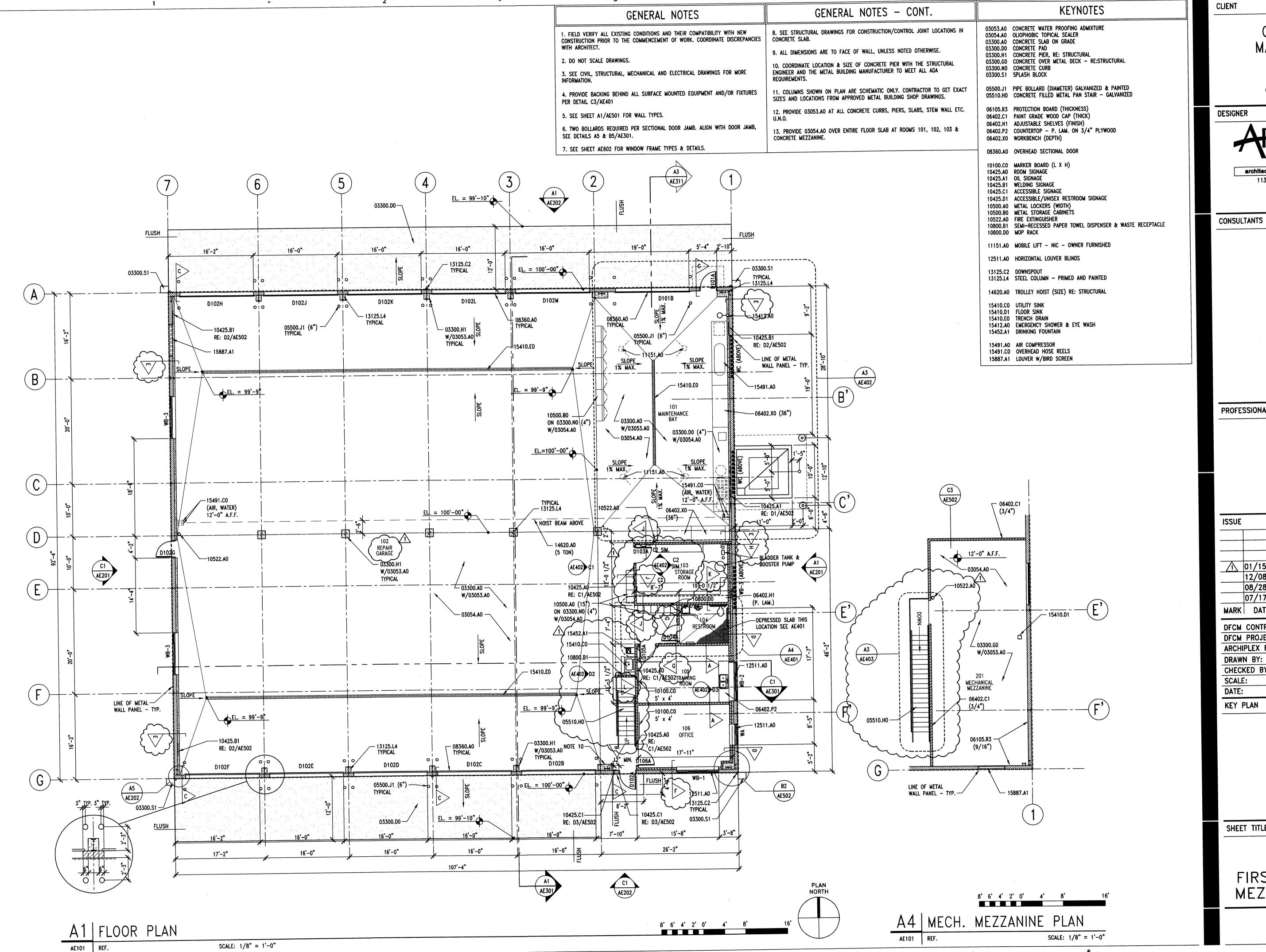


ISSUE		
***************************************		
<del></del>		
***************************************	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

067477
06034900
0609.0
MJW
1/8"=1'-0'
DECEMBER 8, 2006

SHEET TITLE

CIVIL DETAILS



5

CLEARFIELD

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101

P:(801) 961-7070

F:(801) 961-7373

PROFESSIONAL SEAL



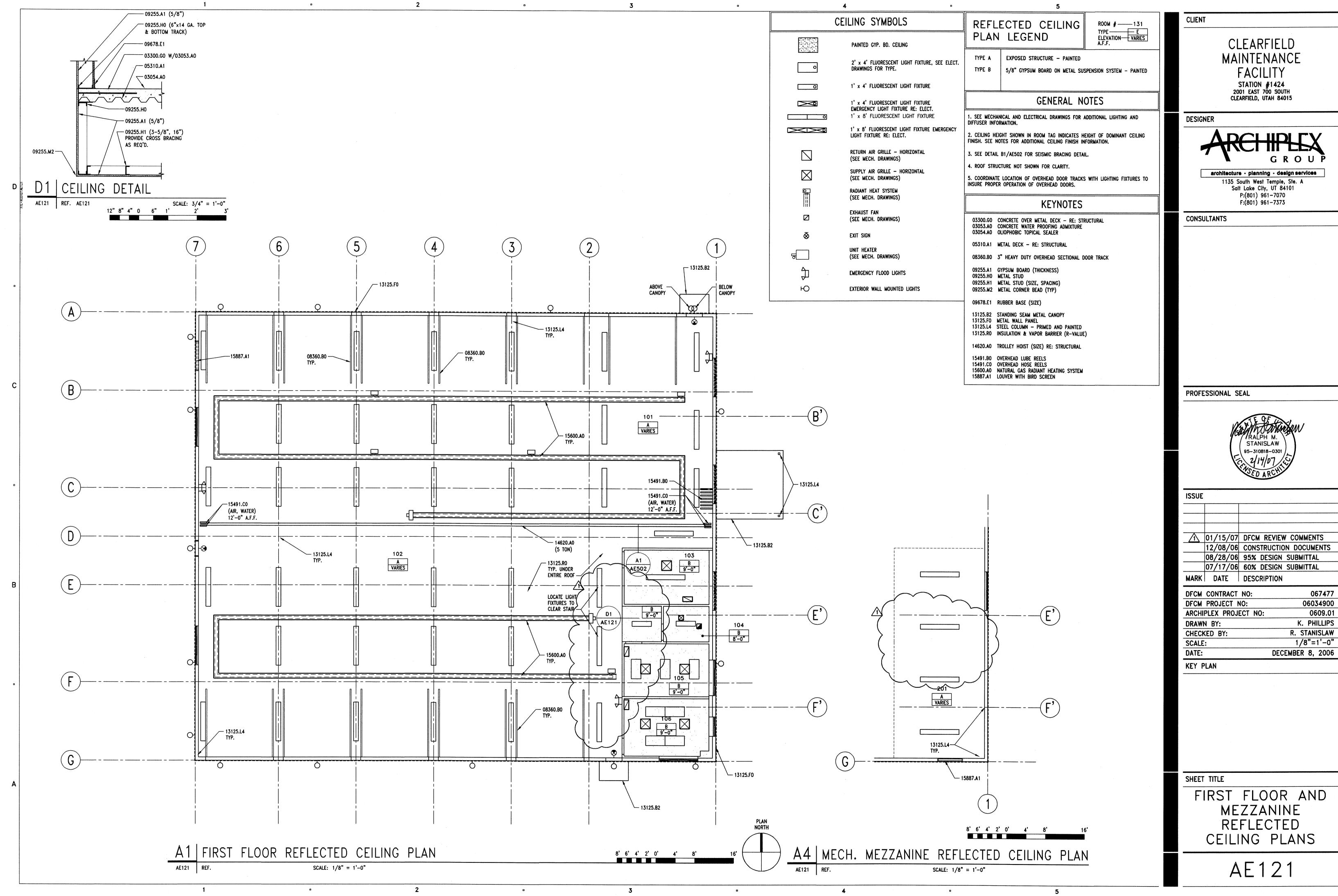
1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

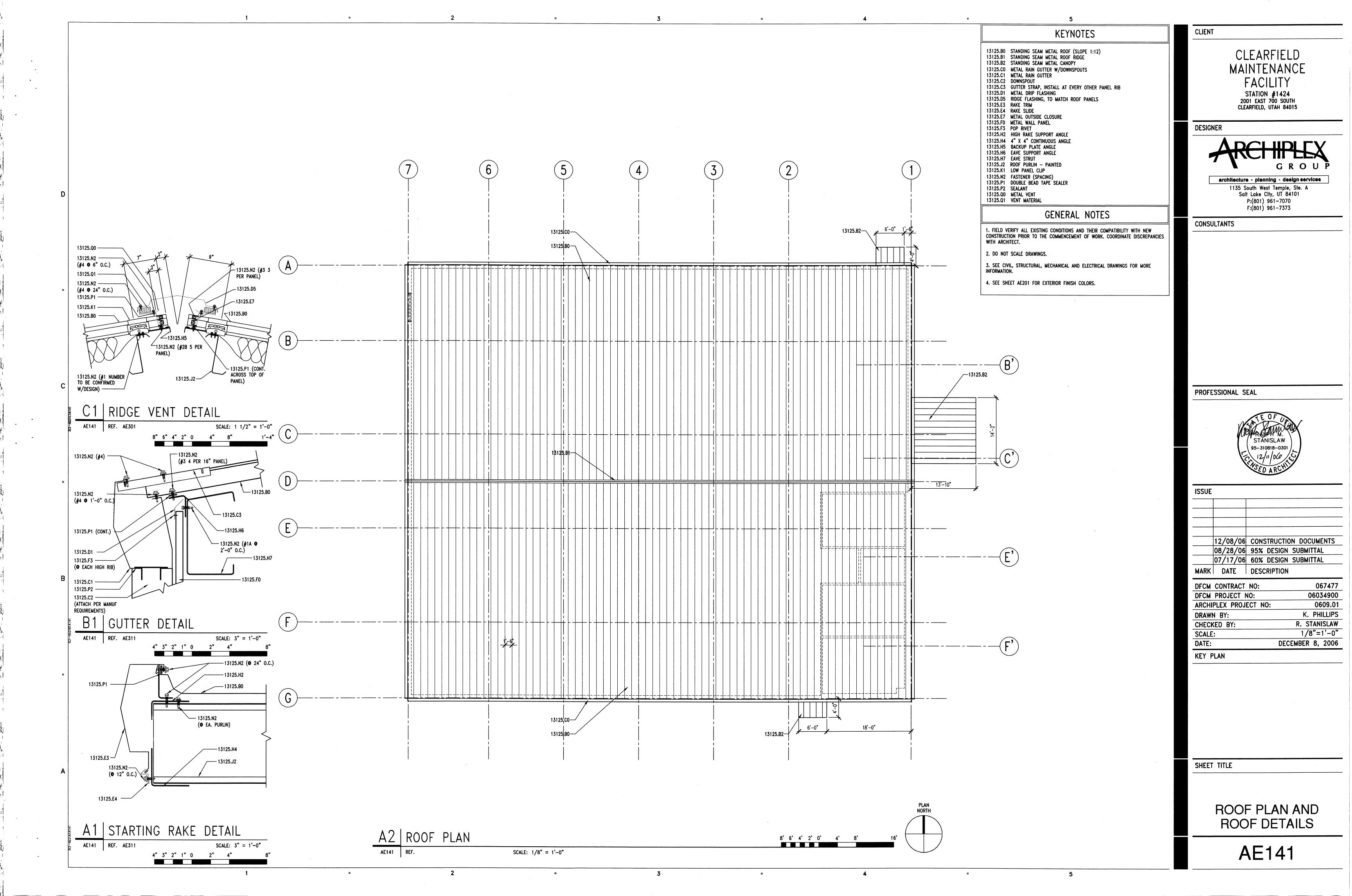
DFCM CONTRACT NO: 067477 06034900 DFCM PROJECT NO: 0609.01 ARCHIPLEX PROJECT NO: K. PHILLIPS DRAWN BY: R. STANISLAW 1/8"=1'-0" CHECKED BY: DECEMBER 8, 2006

SHEET TITLE

FIRST FLOOR AND MEZZANINE PLANS



06034900 0609.01 K. PHILLIPS R. STANISLAW 1/8"=1'-0" DECEMBER 8, 2006



## EXTERIOR COLOR SCHEDULE (13125.B0) METAL ROOF: GALVALUME METAL ROOF (13125.C1 & E3) GUTTERS & RAKE TRIM: SILICONIZED POLYESTER FINISH -COLOR "B" BY ARCHITECT (13125.FO) METAL WALL PANEL: SILICONIZED POLYESTER FINISH - COLOR "A"

(08520.B0) WINDOW FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL

(13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH METAL WALL PANEL @ GRID 3.

BY ARCHITECT

(05500.J1) BOLLARDS: OSHA SAFETY YELLOW

(15490.CO) WASTE OIL PIT: OSHA SAFETY RED

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES (13125.GO) METAL FASCIA: SILICONIZED POLYESTER FINISH - COLOR "A" BY WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE (13125.C2) DOWN SPOUTS: PRE FINISHED TO MATCH CORNER TRIM @ GRIDS 1 & 5. INFORMATION. (08111.A0, B0 & 08360.A0) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL

5. PAINT ALL EXPOSED, EXTERIOR STEEL AT OIL PIT CANOPY - COLOR TO MATCH WALL PANELS.

GENERAL NOTES

6. EXTERIOR ELEVATION KEYNOTES ARE FOR ALL EXTERIOR ELEVATIONS, THEREFOR NOT ALL KEYNOTES MAY BE USED ON EACH SHEET.

7. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE PROVIDED BY THE METAL BUILDING MANUFACTURER.

## EXTERIOR ELEVATION KEYNOTES

03053.AO CONCRETE WATER PROOFING ADMIXTURE 03054.A0 OLIOPHOBIC TOPICAL SEALER

03300.C1 FOOTING-RE: STRUCTURAL 03300.DO CONCRETE PAD 03300.HO FOUNDATION WALL, RE: STRUCTURAL 03300.S1 SPLASH BLOCK

05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED

06105.R3 PROTECTION BOARD (THICKNESS)

07901.AO CONT. SEALANT 08111.BO HOLLOW METAL DOOR

08360.AO OVERHEAD SECTIONAL DOOR 08520.B0 FIXED ALUM. WINDOW 08520.CO ALUM. WINDOW W/SLIDING GLASS PANEL

08521.BO FIXED VINYL WINDOW 08521.CO VINYL WINDOW W/SLIDING GLASS PANEL

10425.C1 ACCESSIBLE SIGNAGE - SEE DETAIL D3/AE502

13125.BO STANDING SEAM METAL ROOF

13125.B2 STANDING SEAM METAL CANOPY 13125.C1 METAL RAIN GUTTER 13125.C2 DOWNSPOUT

13125.D1 METAL DRIP FLASHING 13125.E2 PANEL TRIM 13125.E6 WALL CLOSURE

13125.E8 CORNER TRIM 13125.FO METAL WALL PANEL 13125.F1 METAL WALL FASTENER 13125.F2 BLIND RIVET

13125.GO METAL FACIA 13125.H1 METAL ANGLE 13125.L4 STEEL COLUMN - PRIMED AND PAINTED

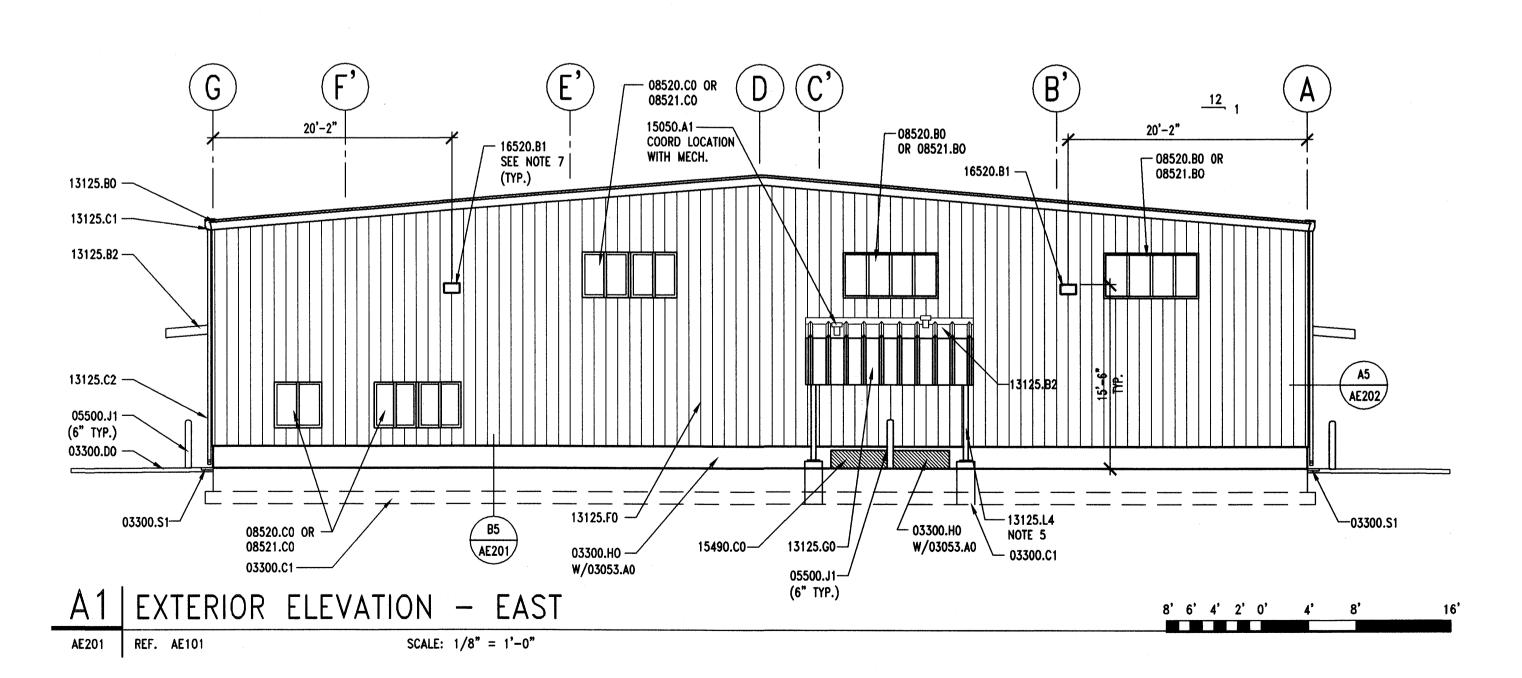
13125.N1 ANCHOR 13125.P3 THERMAL BREAK 13125.RO INSULATION & VAPOR BARRIER (R-VALUE)

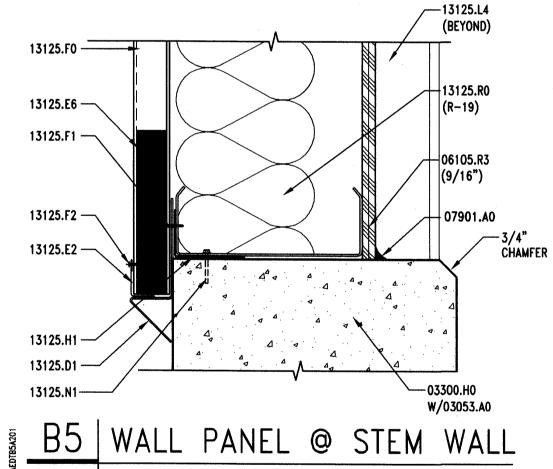
15050.A1 MECH. PENETRATIONS

15490.CO WASTE OIL PIT 15887.A1 LOUVER W/ BIRD SCREEN

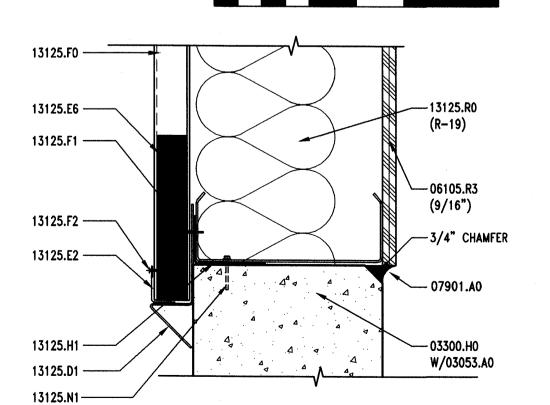
16520.B1 EXTERIOR WALL MOUNTED LIGHTS 16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

(D)15'-0" 15'-0" - 16520.B2 SEE NOTE 7 16520.B1 16520.B1 -13125.B0 — SEE NOTE 7 (TYP.) 13125.C1 -16520.B2 -**A5** AE202 13125.C2 — 05500.J1-(6" TYP.) 03300.D0 --13125.F0 — 08520.C0 OR-08520.CO OR 08111.B0 — 15887.A1 — 03300.S1 ---08521.C0 / B5 \ 08521.CO 03300.C1 -03300.НО — W/03053.A0 C1 EXTERIOR ELEVATION - WEST 8' 6' 4' 2' 0' 4' 8' AE201 REF. AE101 SCALE: 1/8" = 1'-0"





AE201 REF. AE201 & AE301 4" 3" 2" 1" 0 2" 4"



AE201 | REF. AE202 & AE301

4" 3" 2" 1" 0 2" 4"

CLIENT

DESIGNER

CLEARFIELD MAINTENANCE **FACILITY** 

STATION #1424

2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070

F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



ISSUE 12/08/06 CONSTRUCTION DOCUMENTS

08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

067477 DFCM CONTRACT NO: 06034900 DFCM PROJECT NO: ARCHIPLEX PROJECT NO: 0609.01 K. PHILLIPS DRAWN BY: R. STANISLAW CHECKED BY: 1/8"=1'-0" SCALE:

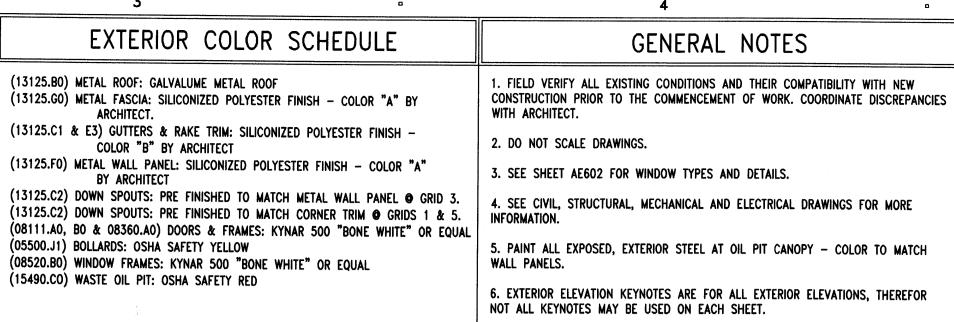
DECEMBER 8, 2006

KEY PLAN

DATE:

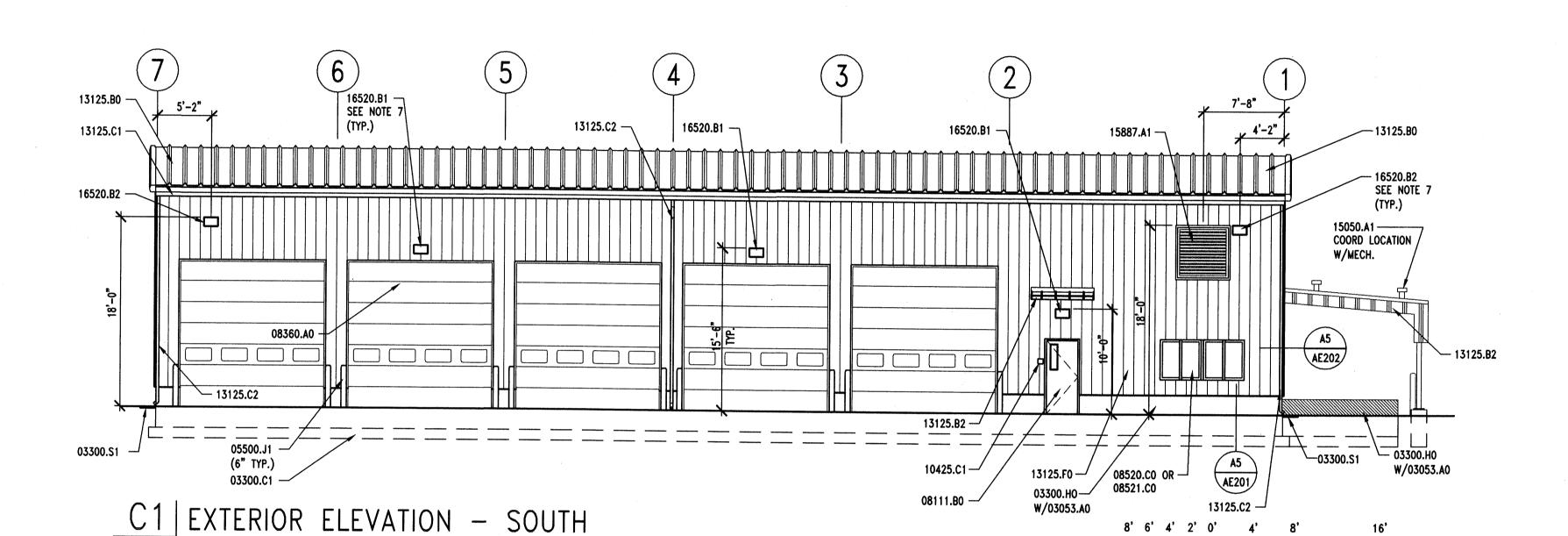
SHEET TITLE

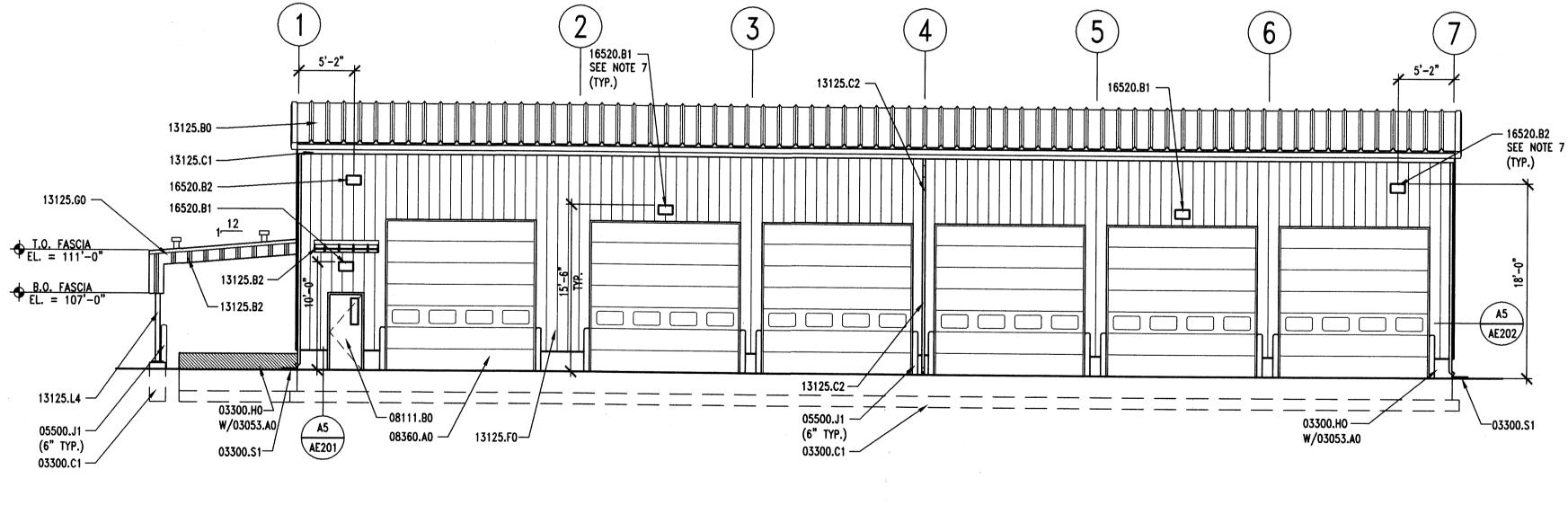
EXTERIOR **ELEVATIONS** AND DETAILS



7. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE

PROVIDED BY THE METAL BUILDING MANUFACTURER.





AE202 REF. AE101

SCALE: 1/8" = 1'-0"

A1 EXTERIOR ELEVATION - NORTH

8' 6' 4' 2' 0' 4' 8'

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION KEYNOTES

03053.A0 CONCRETE WATER PROOFING ADMIXTURE 03054.A0 OLIOPHOBIC TOPICAL SEALER 03300.C1 FOOTING-RE: STRUCTURAL

03300.C1 FOOTING-RE: STRUCTURAL
03300.D0 CONCRETE PAD
03300.H0 FOUNDATION WALL, RE: STRUCTURAL

03300.S1 SPLASH BLOCK

05500.J1 PIPE BOLLARD (DIAMETER) GALY. AND PAINTED
06105.R3 PROTECTION BOARD (THICKNESS)

07901.A0 CONT. SEALANT

08111.BO HOLLOW METAL DOOR 08360.AO OVERHEAD SECTIONAL DOOR

08520.B0 FIXED ALUM. WINDOW
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.B0 FIXED VINYL WINDOW
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

10425.C1 ACCESSIBLE SIGNAGE - SEE DETAIL D3/AE502

10425.C1 ACCESSIBLE SIGNAGE – SEE DETAIL D
13125.BO STANDING SEAM METAL ROOF

13125.BO STANDING SEAM METAL ROOF 13125.B2 STANDING SEAM METAL CANOPY 13125.C1 METAL RAIN GUTTER 13125.C2 DOWNSPOUT

13125.D1 METAL DRIP FLASHING 13125.E2 PANEL TRIM 13125.E6 WALL CLOSURE 13125.E8 CORNER TRIM 13125.FO METAL WALL PANEL

13125.F1 METAL WALL FASTENER 13125.F2 BLIND RIVET 13125.G0 METAL FACIA 13125.H1 METAL ANGLE

13125.L4 STEEL COLUMN — PRIMED AND PAINTED 13125.N1 ANCHOR 13125.P3 THERMAL BREAK

13125.RO INSULATION & VAPOR BARRIER (R-VALUE)

15050.A1 MECH. PENETRATIONS
15490.C0 WASTE OIL PIT
15887.A1 LOUVER W/ BIRD SCREEN

16520.B1 EXTERIOR WALL MOUNTED LIGHTS
16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS

PROFESSIONAL SEAL

CLIENT

DESIGNER

CONSULTANTS

CLEARFIELD

**MAINTENANCE** 

**FACILITY** 

STATION #1424

2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

architecture · planning · design services

1135 South West Temple, Ste. A

Salt Lake City, UT 84101

P:(801) 961-7070

F:(801) 961-7373



ISSUE

12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: K. PHILLIPS

CHECKED BY: R. STANISLAW

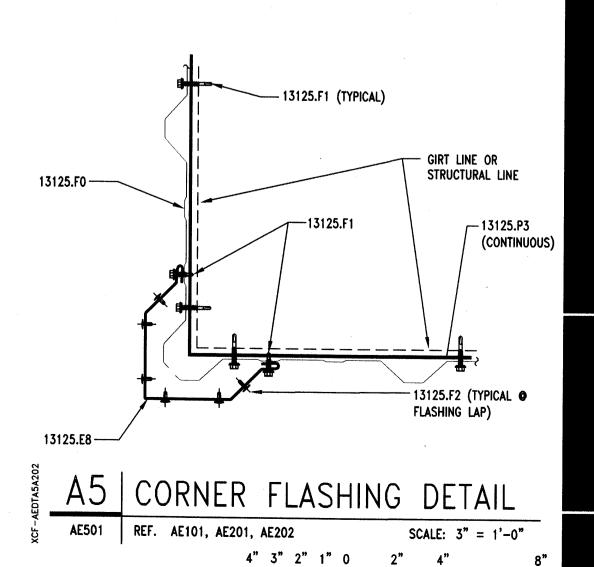
SCALE: 1/8"=1'-0"

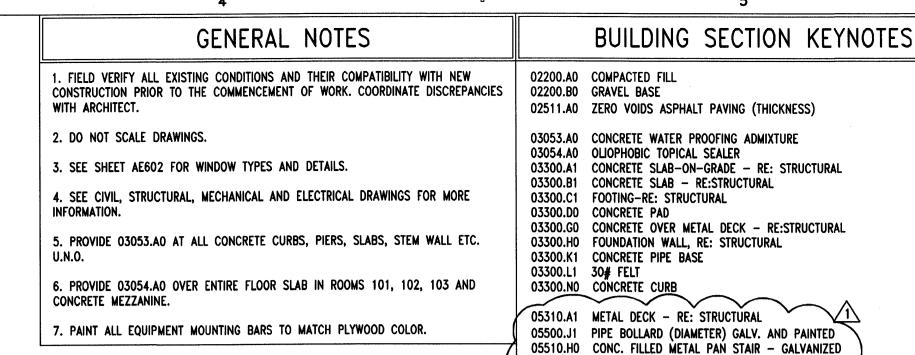
DATE: DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

EXTERIOR ELEVATIONS AND DETAILS





(6)13125.B0-15600.A0 -13125.RO----AE311 AE311 (R-19) 16510.A0 ─\ 13125.L4 -13125.J2 --13125.E3-13125.RO-06402.C1 (3/4")-(R-19) 03300.G0--13125.E3 W/03053.A0 06105.R3--- 16510.A0 (9/16") T.O. PLYWOOD 13125.F0-EL. = 110'-0"---05521.B3 05310.A1— -05510.H0 12511.A0 — - 13125.J1 09255.A1-- 13125.J3 08520.C0 OR-(5/8") 102 REPAIR GARAGE 06105.R3 (9/16")— 03054.A0— 08521.CO TRAINING ROOM 10'-0" A.F.F. 09255.U1-03300.NO --03300.H0 W/03053.A0-W/03053.A0 ─-08360.A0 (6" TYP.) 03300.B1 -RE: A5/AE301 03300.C1----

C1 BUILDING SECTION

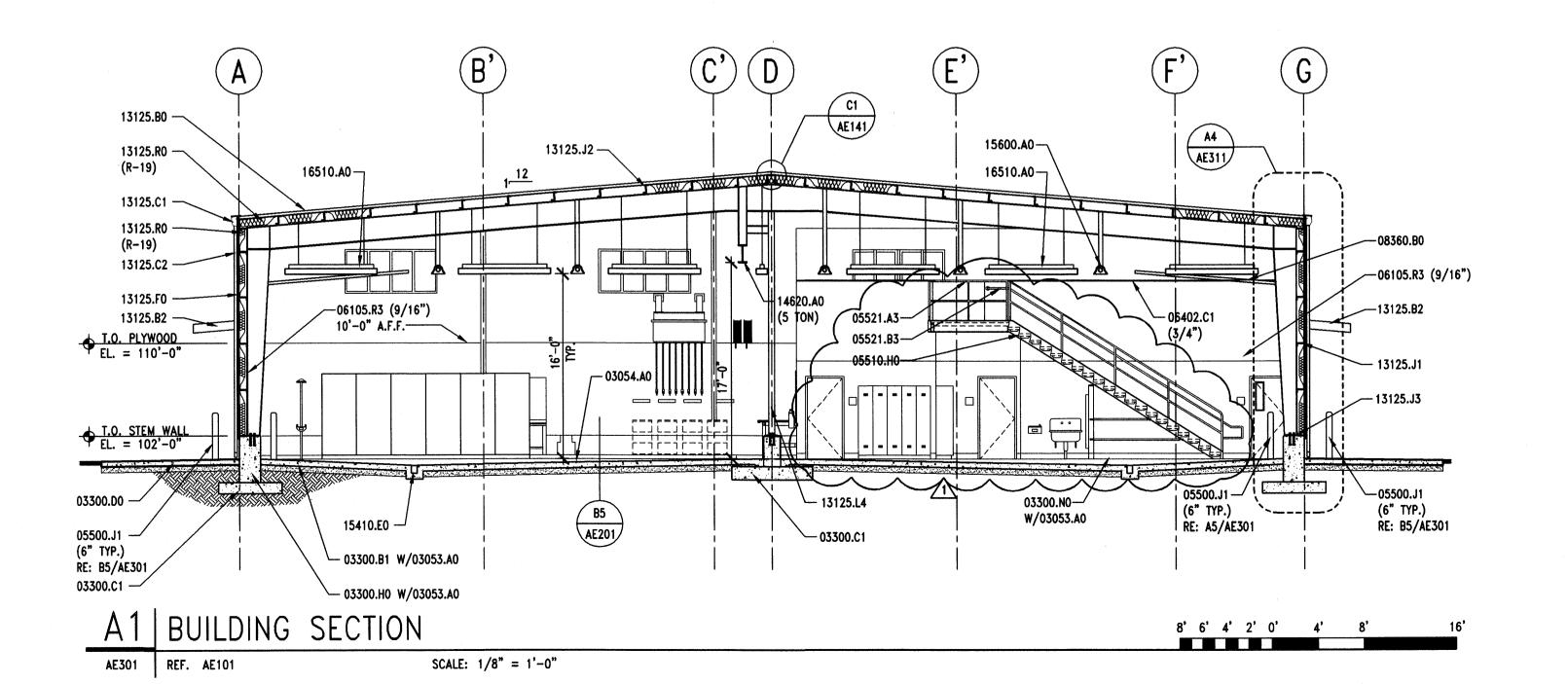
AE301 REF. AE101 SCALE: 1/8" = 1'-0"

2

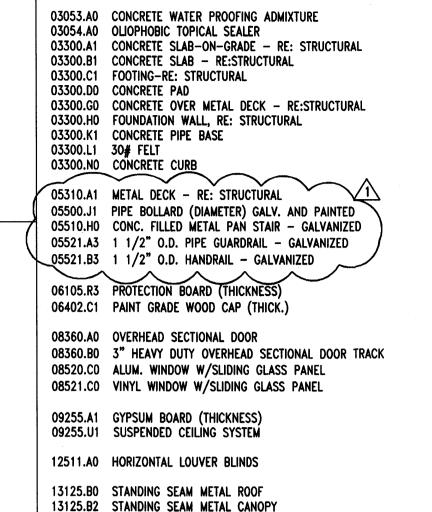
W/03053.A0

--- 02200.B0

02200.A0-



8' 6' 4' 2' 0' 4' 8'



13125.C1 METAL RAIN GUTTER 13125.C2 DOWNSPOUT

13125.FO METAL WALL PANEL

13125.J3 STRUCTURAL GIRT

15410.E0 TRENCH DRAIN

16510.AO INTERIOR LIGHTS

13125.J1 STRUCTURAL GIRT - PAINTED

13125.L4 STEEL COLUMN - PRIMED & PAINTED

13125.RO INSULATION & VAPOR BARRIER (R-VALUE)

14620.A0 TROLLEY HOIST (SIZE) - RE: STRUCTURAL

15600.AO NATURAL GAS RADIANT HEATING SYSTEM

13125.J2 ROOF PURLIN - PAINTED

13125.E3 RAKE TRIM

REFLECTIVE
SAFETY
TAPE

05500.J1 (6")
SEE AE201 FOR COLOR

03300.L1

SLOPE TO DRAIN

02511.A0 OR
03300.D0
(WHERE OCCURS)

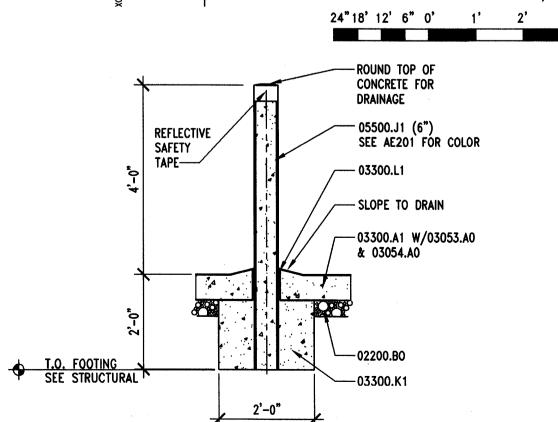
02200.B0

03300.K1

B5 EXT. PIPE BOLLARD DTL.

AE301 REF. AE101 & AE301 SCALE: 1/2" = 1

24"18' 12' 6" 0' 1' 2'



A5 INT. PIPE BOLLARD DTL.

SCALE: 1/2" = 1'

CLIENT

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424

2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

DESIGNER



architecture · planning · design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



ISSUE

101/15/07 DFCM REVIEW COMMENTS
12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: K. PHILLIPS

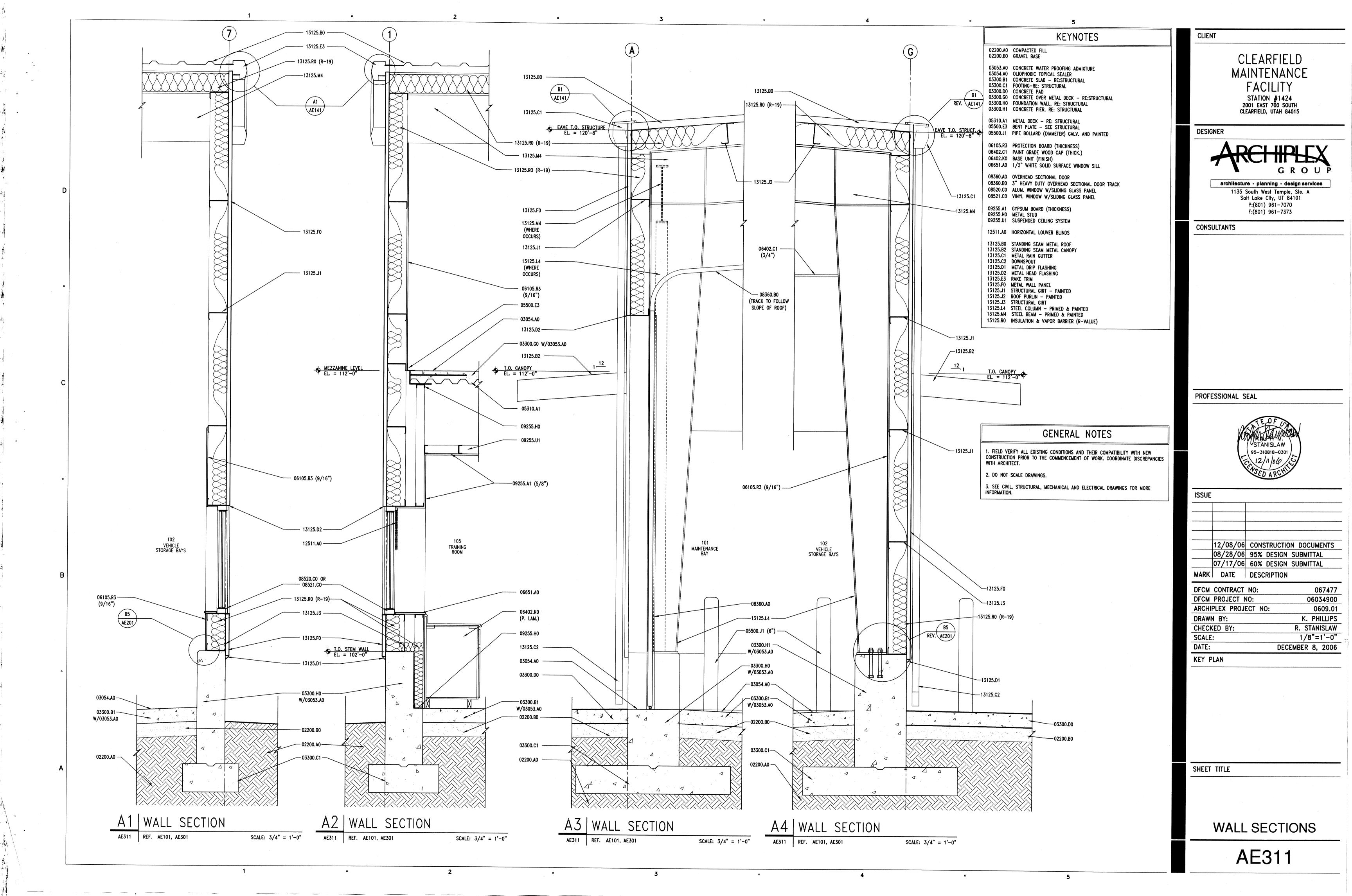
CHECKED BY: R. STANISLAW

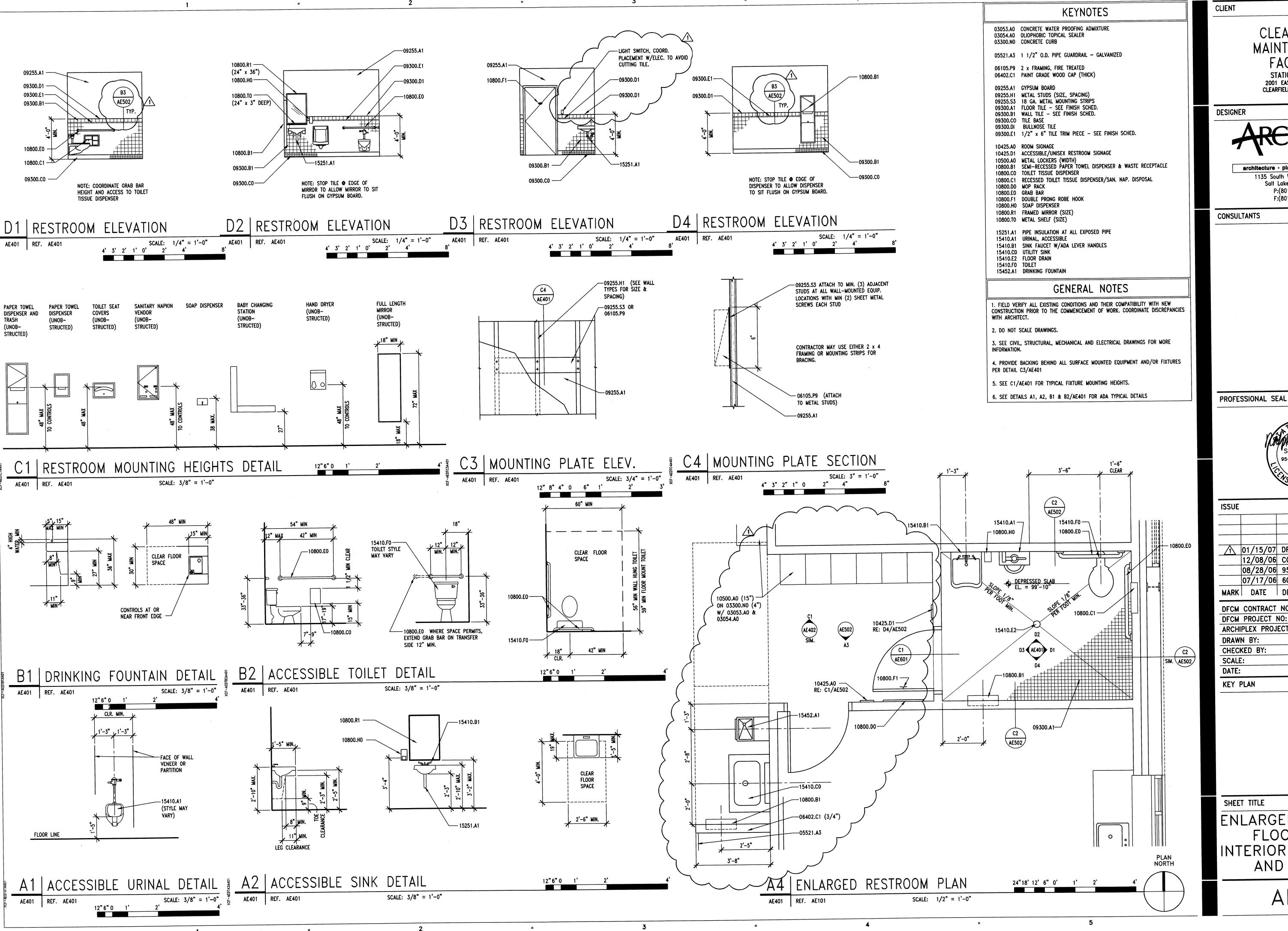
SCALE: 1/8"=1'-0"

DATE: DECEMBER 8, 2006

SHEET TITLE

BUILDING SECTIONS
AND DETAILS





CLEARFIELD MAINTENANCE **FACILITY** 

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

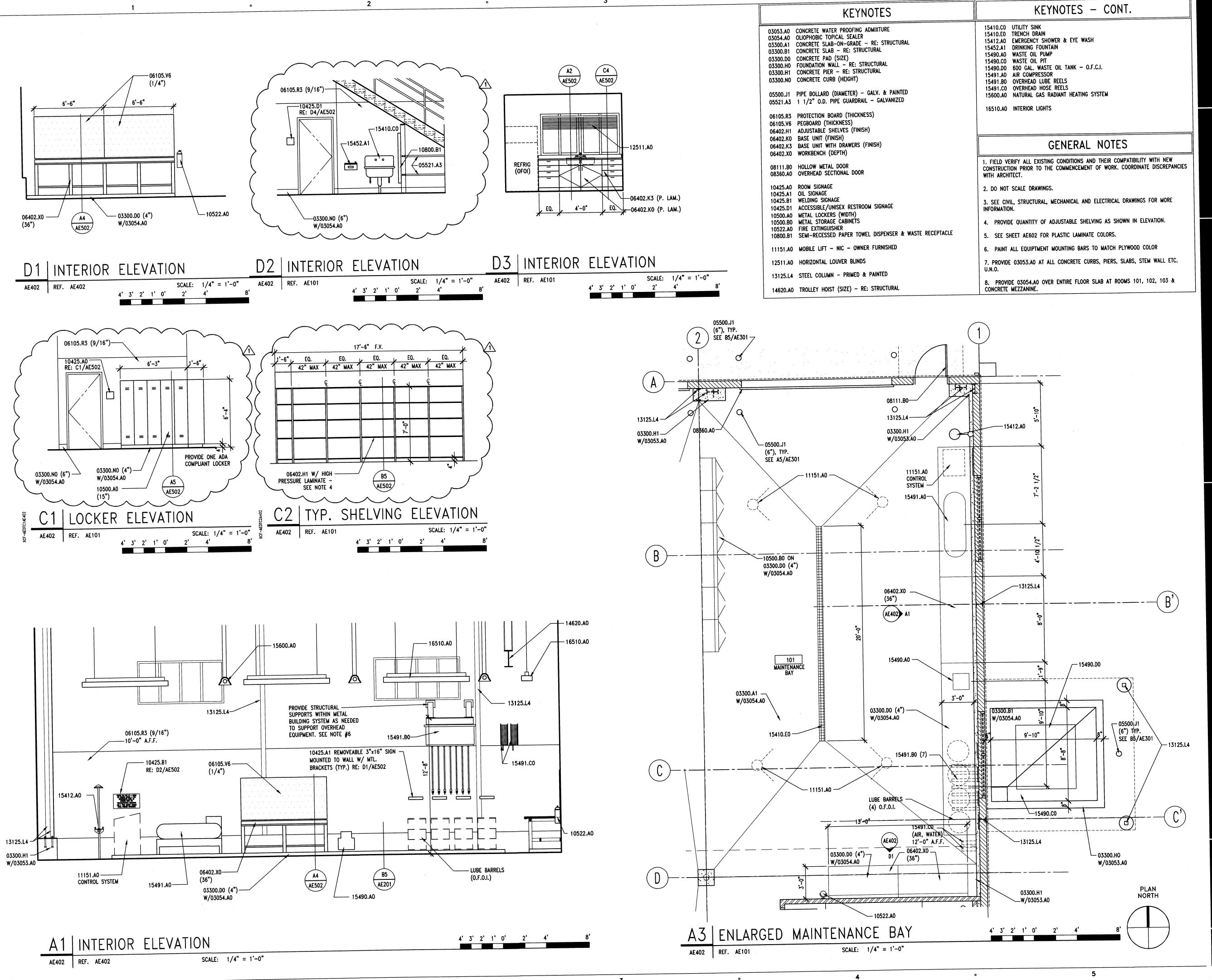


1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

067477 DECM CONTRACT NO: 06034900 DFCM PROJECT NO: 0609.01 ARCHIPLEX PROJECT NO: K. PHILLIPS DRAWN BY: R. STANISLAW CHECKED BY: AS SHOWN SCALE: DATE: DECEMBER 8, 2006

SHEET TITLE

ENLARGED RESTROOM FLOOR PLAN, INTERIOR ELEVATIONS AND DETAILS



CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER

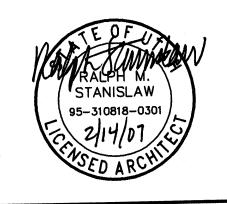


architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



12/08/06 CONSTRUCTION DOCUMENTS

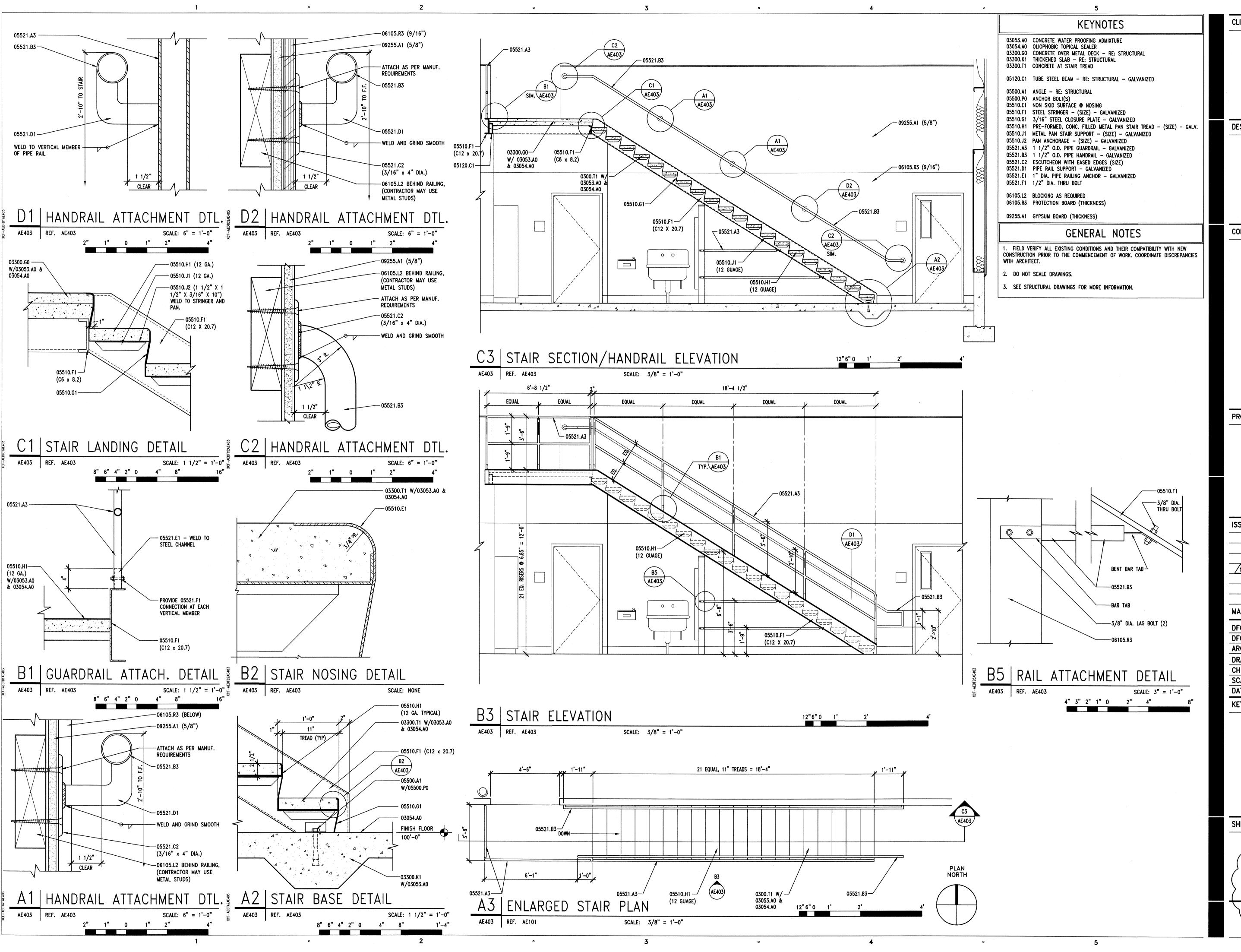
08/28/06 95% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

ENLARGED
MAINTENANCE BAY
AND INTERIOR
ELEVATIONS



CLEARFIELD **MAINTENANCE FACILITY** 

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

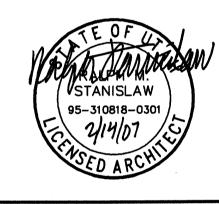
DESIGNER



architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL

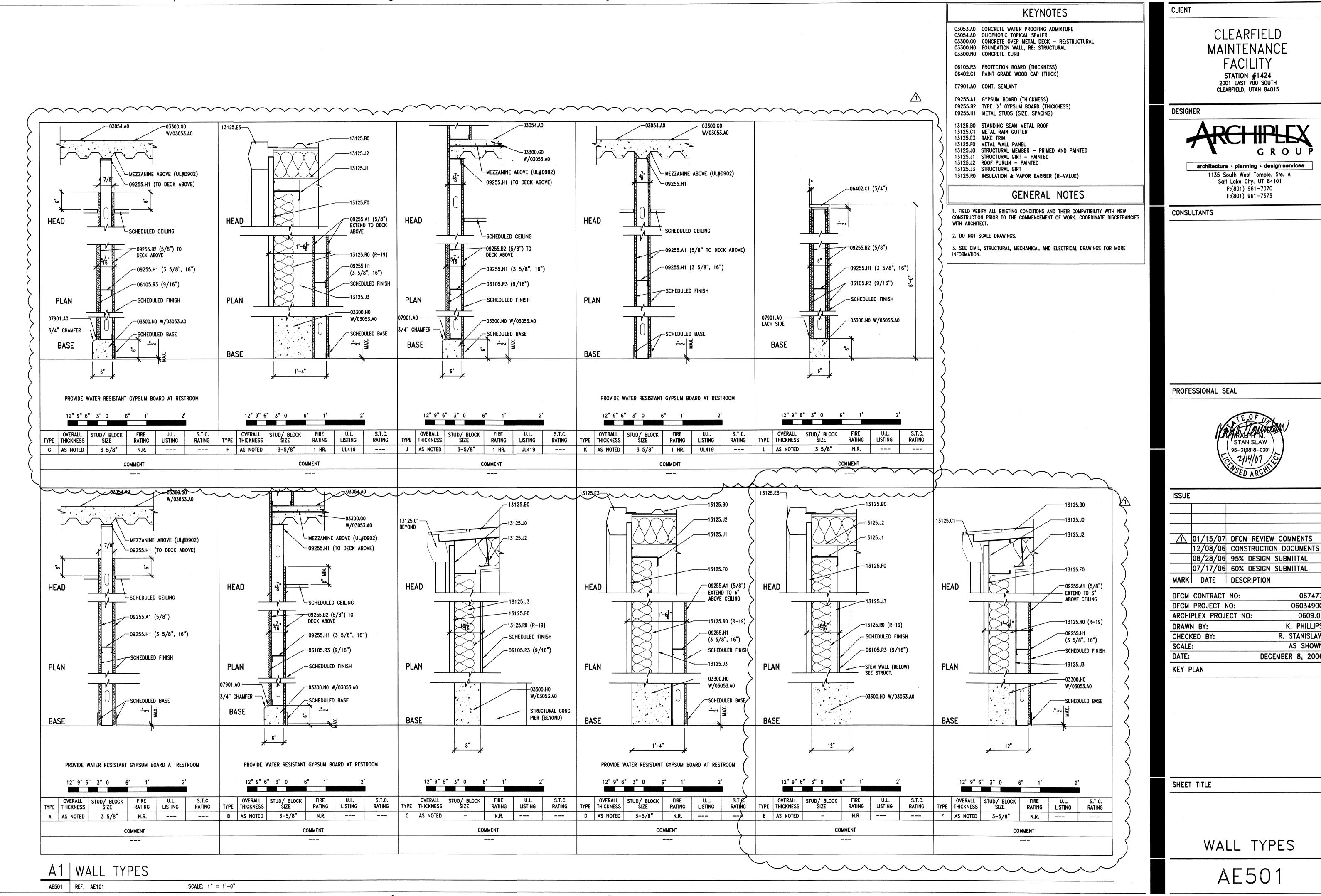


1 01/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

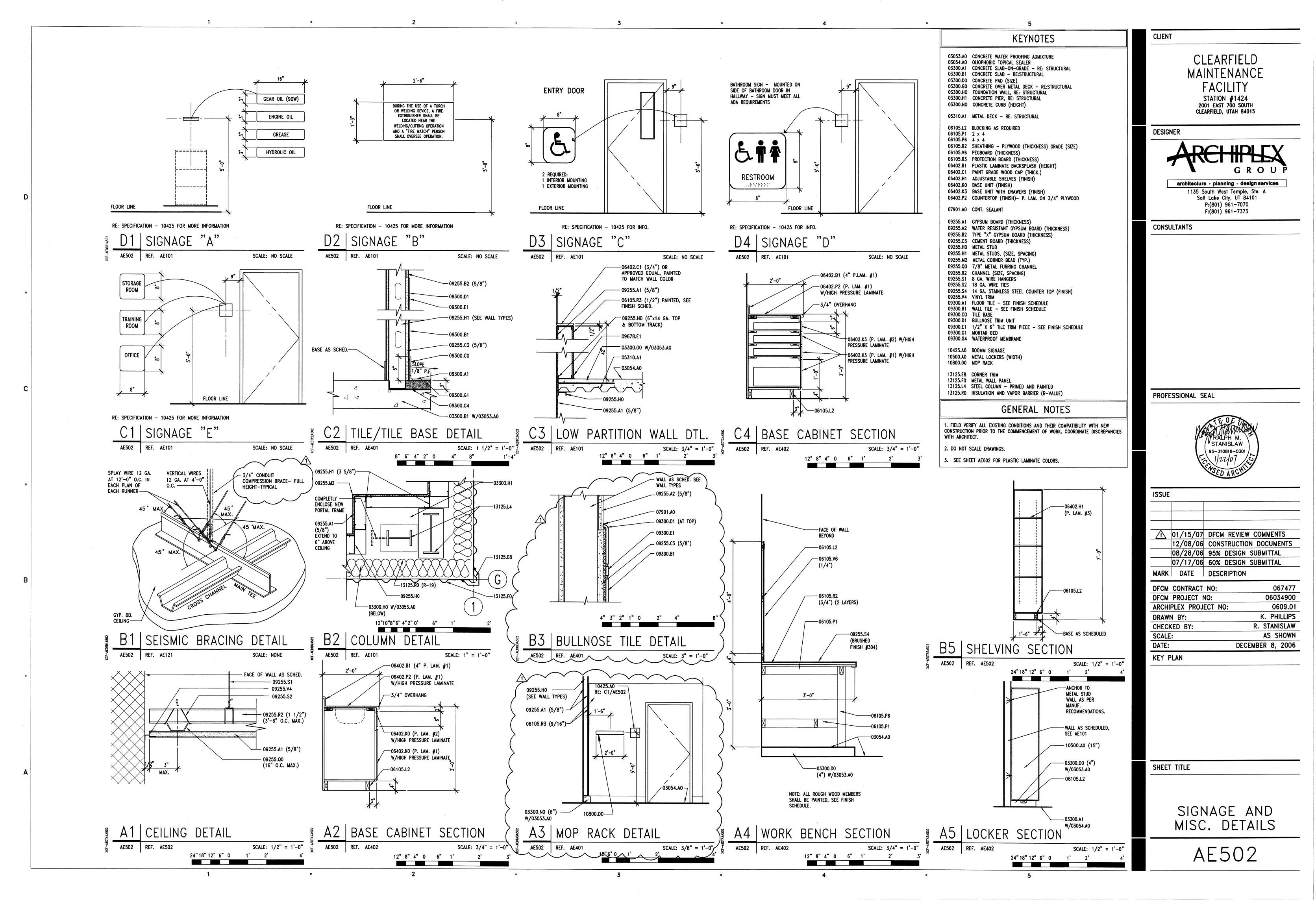
DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

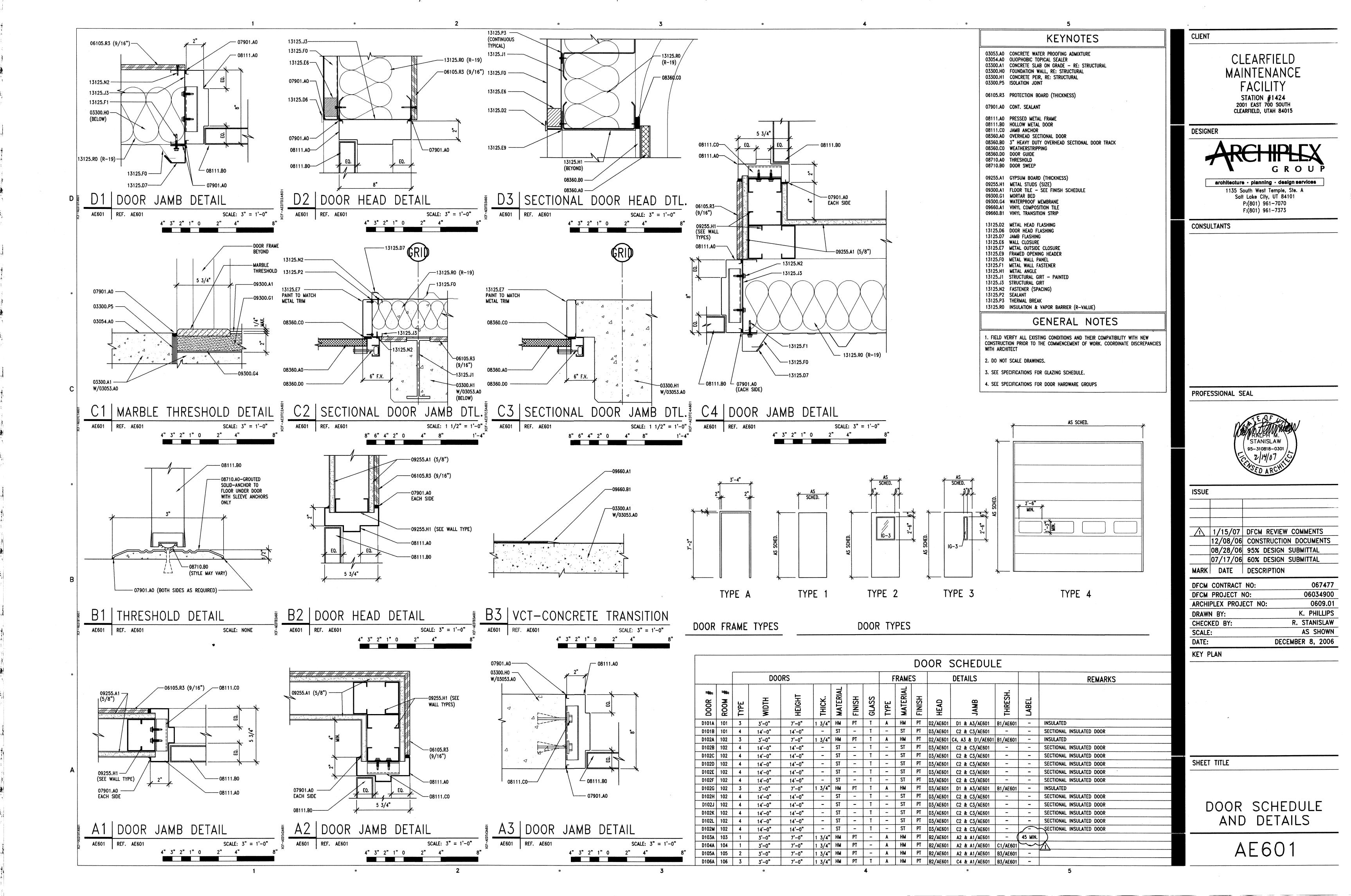
SHEET TITLE

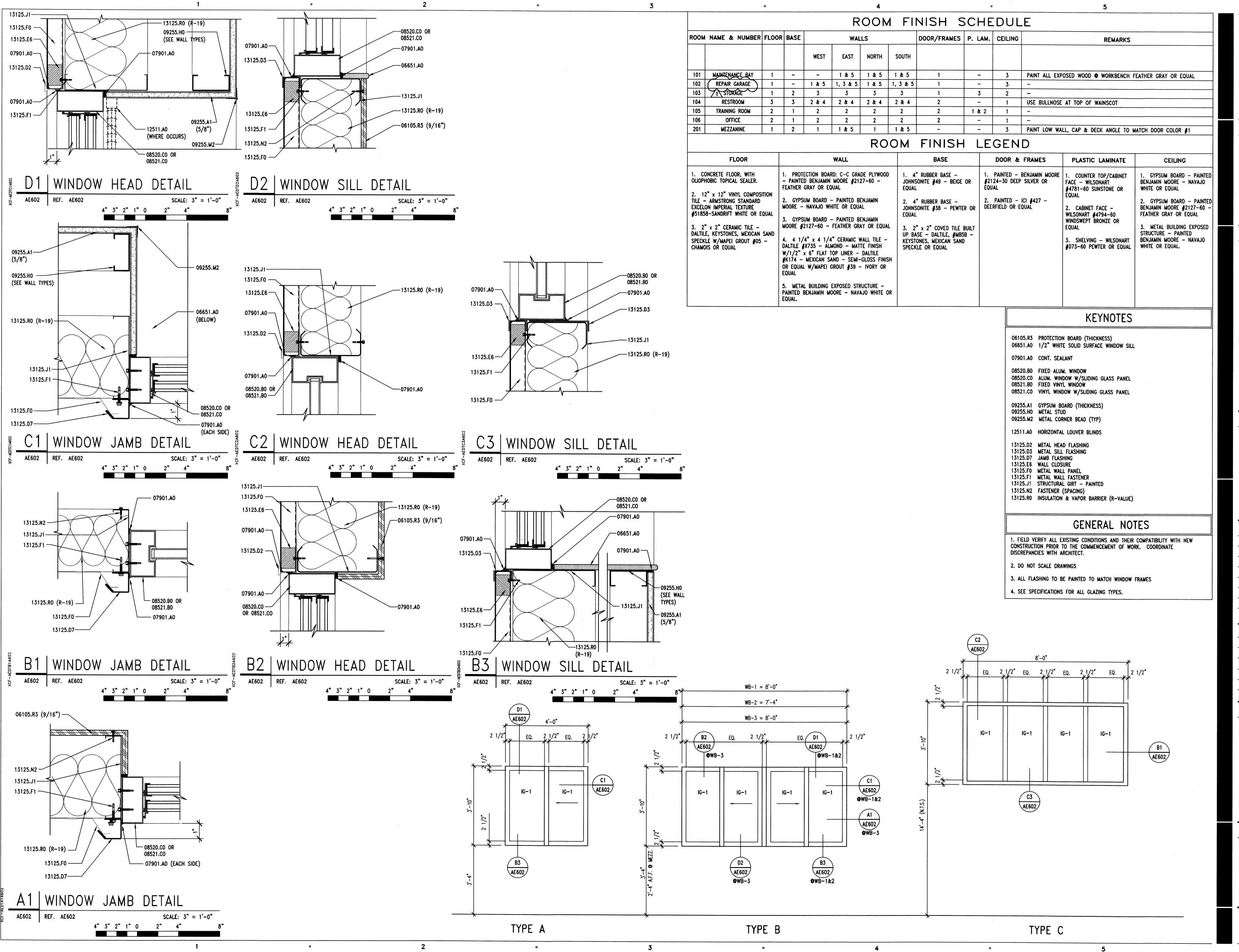
STAIR PLAN, SECTION **ELEVATION** AND DETAILS



DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006







CLEARFIELD MAINTENANCE FACILITY

FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



ISSUE

O1/15/07 DFCM REVIEW COMMENTS

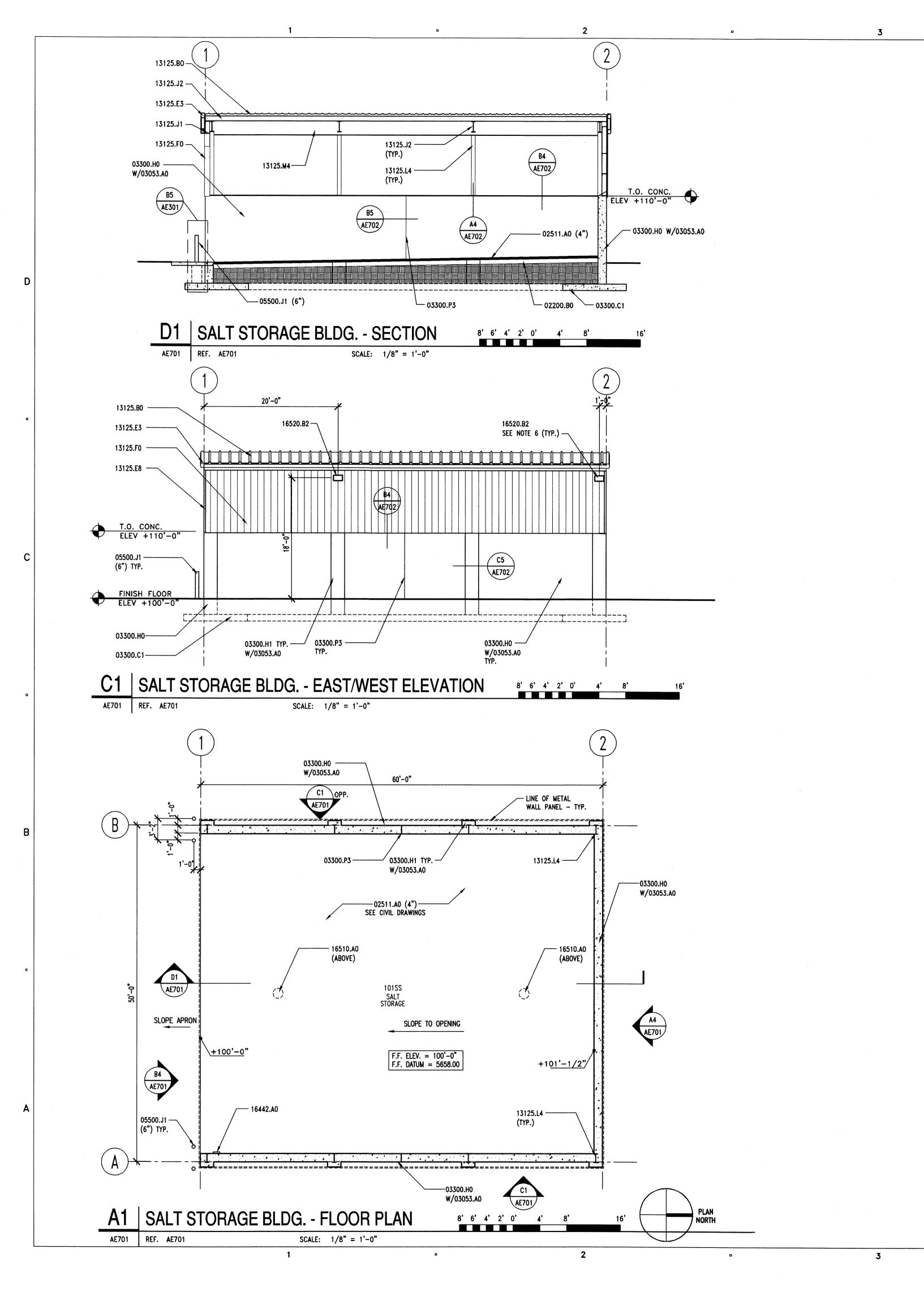
12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

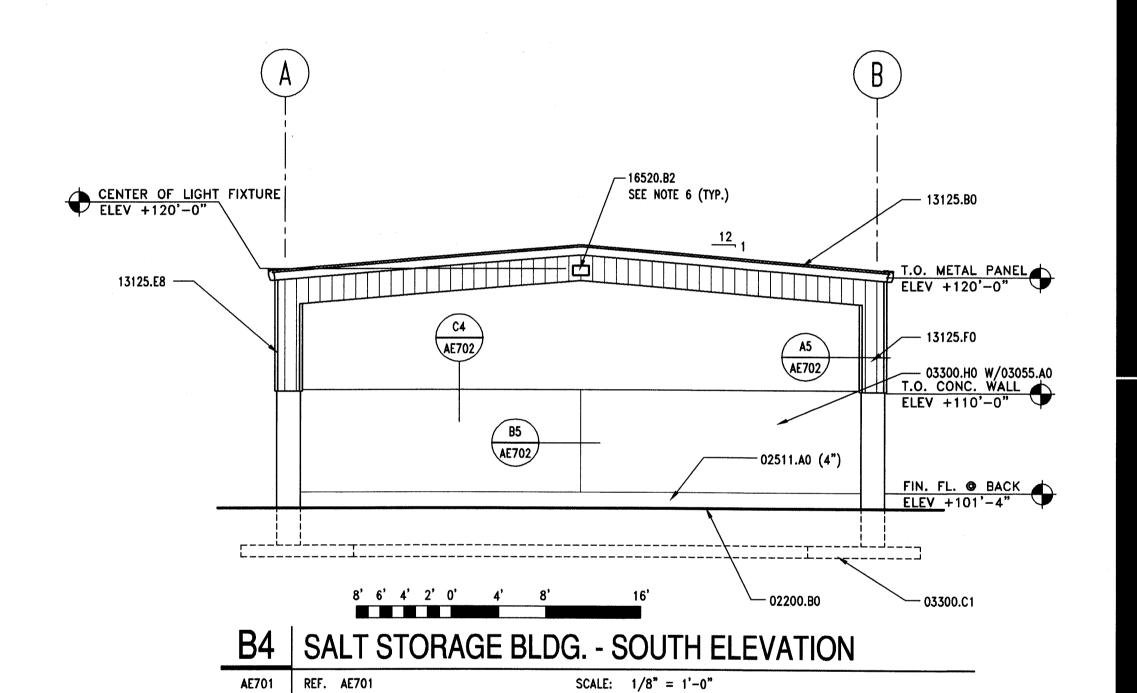
DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	K. PHILLIPS
CHECKED BY:	R. STANISLAW
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

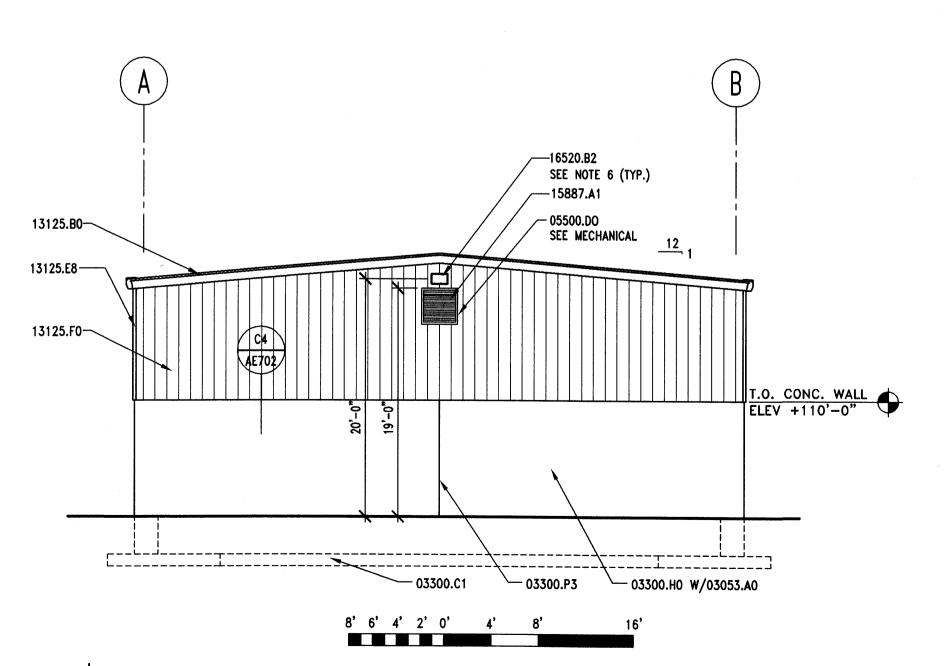
WINDOW FRAME
TYPES, GLAZING &
FINISH SCHEDULES
AND DETAILS



GENERAL NOTES **KEYNOTES** 1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW 02200.BO GRAVEL BASE CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES 02511.A0 ZERO VOIDS ASPHALTIC PAVING (THICKNESS) WITH ARCHITECT. 03053.AO CONCRETE WATER PROOFING ADMIXTURE 03300.C1 FOOTING RE: STRUCTURAL 2. DO NOT SCALE DRAWINGS. 03300.HO FOUNDATION WALL, RE: STRUCTURAL 3. SEE CIVIL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR MORE INFORMATION. 03300.H1 CONCRETE PIER, RE: STRUCTURAL 03300.P3 CONTROL JOINT RE: STRUCTURAL DETAIL B2/S503 4. ALL EXPOSED STEEL IN SALT STORAGE BUILDING TO BE EPOXY COATED. RE: STRUCTURAL DRAWINGS. 05500.DO CHANNEL (SIZE) 05500.J1 PIPE BOLLARD (DIAMETER) GALVANIZED & PAINTED 5. PROVIDE 3/4" CHAMFER AT ALL OUTSIDE CORNERS. 13125.BO STANDING SEAM METAL ROOF 6. EXTERIOR LIGHTS MUST BE SUPPORTED BY SUITABLE STRUCTURAL BRACING TO BE 13125.E3 RAKE TRIM PROVIDED BY THE METAL BUILDING MANUFACTURERER. 13125.E8 CORNER TRIM 13125.FO METAL WALL PANEL EXTERIOR COLOR SCHEDULE 13125.J1 STRUCTURAL GIRT - PAINTED 13125.J2 ROOF PURLIN - PAINTED 13125.L4 STEEL COLUMN - PRIMED AND PAINTED (13125.B0) METAL ROOF: GALVALUME METAL ROOF 13125.M4 STEEL BEAM - PRIMED AND PAINTED (13125.E3 & E8) RAKE TRIM & CORNER TRIM: SILICONIZED POLYESTER FINISH -COLOR "B" BY ARCHITECT 15887.A1 LOUVER WITH BIRD SCREEN (36" x 36" RUSHKIN #ELF-3750) (13125.F0) METAL WALL PANEL: SILICONIZED POLYESTER FINISH - COLOR "A" BY 16442.AO ELECTRICAL PANEL 16510.AO INTERIOR LIGHTS (08111.AO, BO & 08360.AO) DOORS & FRAMES: KYNAR 500 "BONE WHITE" OR EQUAL 16520.B2 EXTERIOR WALL MOUNTED FLOOD LIGHTS



(05500.J1) BOLLARDS: OSHA SAFETY YELLOW



A4 | SALT STORAGE BLDG. - NORTH ELEVATION AE701 REF. AE701

SCALE: 1/8" = 1'-0"

CLIENT

CLEARFIELD MAINTENANCE **FACILITY** STATION #1424

DESIGNER



2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070

F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



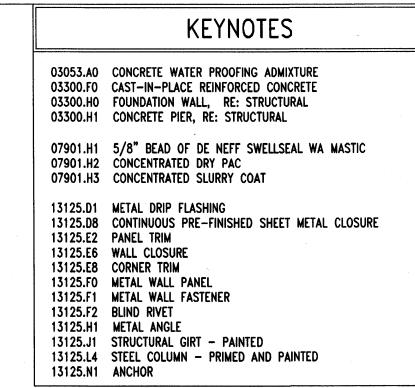
12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477 DFCM PROJECT NO: 06034900 ARCHIPLEX PROJECT NO: 0609.01 K. PHILLIPS DRAWN BY: R. STANISLAW CHECKED BY: 1/8"=1'-0" DATE: DECEMBER 8, 2006 **KEY PLAN** 

SHEET TITLE

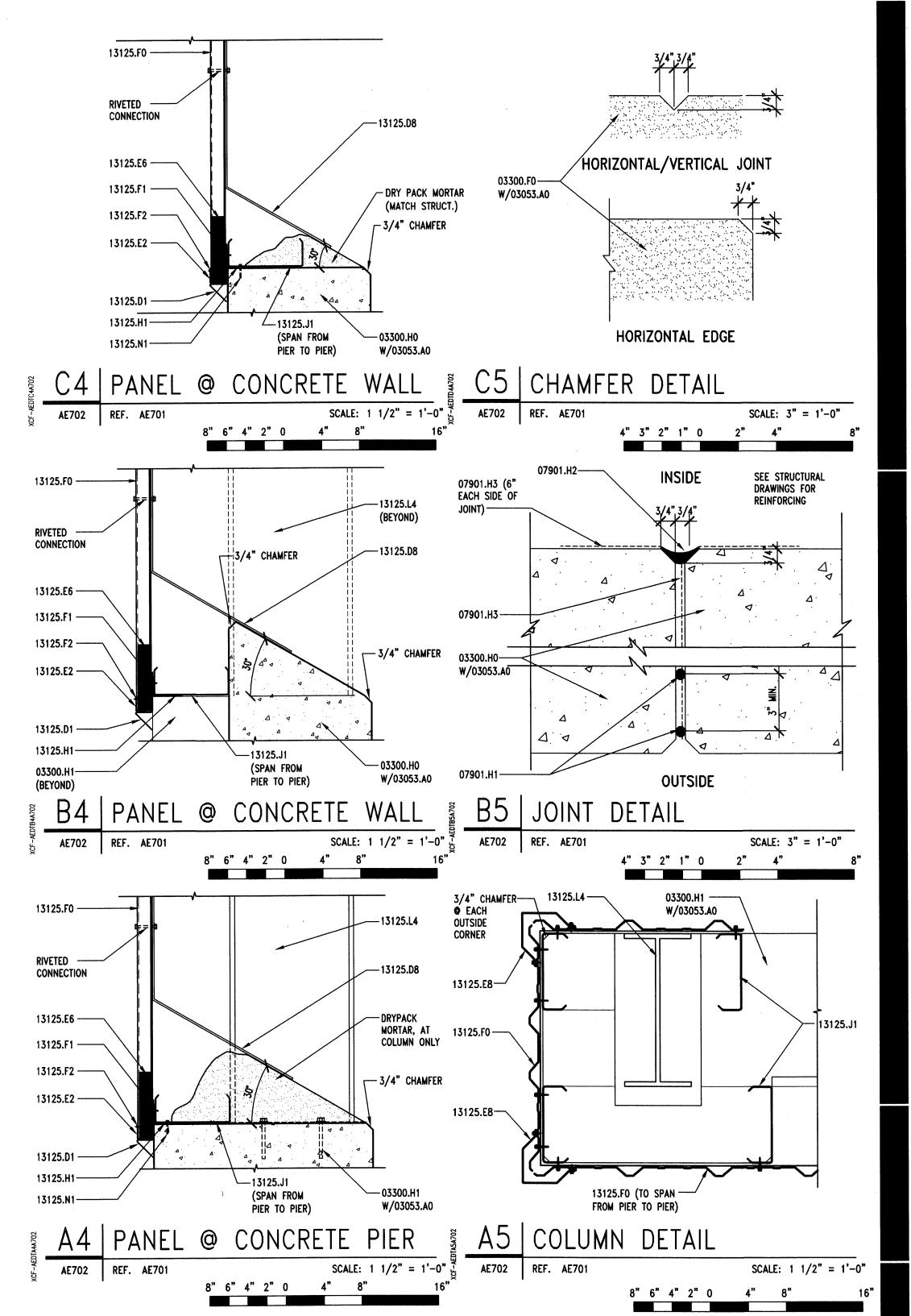
SITE STRUCTURES

SALT STORAGE PLAN, SECTIONS & ELEVS.



5

5



CLIENT

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070

F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



ISSUE

12/08/06 CONSTRUCTION DOCUMENTS

08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL

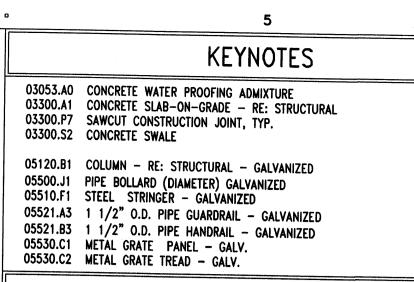
MARK DATE DESCRIPTION

DFCM CONTRACT NO:	067477		
DFCM PROJECT NO:	06034900		
ARCHIPLEX PROJECT NO:	0609.01		
DRAWN BY:	K. PHILLIPS		
CHECKED BY:	R. STANISLAW		
SCALE:	AS SHOWN		
DATE:	DECEMBER 8, 2006		
KEY PLAN			

SHEET TITLE

SITE STRUCTURES

SALT STORAGE DETAILS



1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE CIVIL, STRUCTURAL & ELECTRICAL DRAWINGS FOR MORE INFORMATION.

--- 03300.S2

--- 05521.A2

— 03300.Р7

W/03053.A0

— ACCESS FOR STOP & WASTE VALVE

- FROST FREE HYDRANT

(1 LOW & 1 HIGH)

# DESIGNER GROUÌ

CLIENT

architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CLEARFIELD

MAINTENANCE

**FACILITY** 

STATION #1424 2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

CONSULTANTS

PROFESSIONAL SEAL



ISSUE 1 01/15/07 DFCM REVIEW COMMENTS

12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477 DFCM PROJECT NO: 06034900 ARCHIPLEX PROJECT NO: 0609.01 DRAWN BY: K. PHILLIPS R. STANISLAW CHECKED BY: AS SHOWN DECEMBER 8, 2006

KEY PLAN

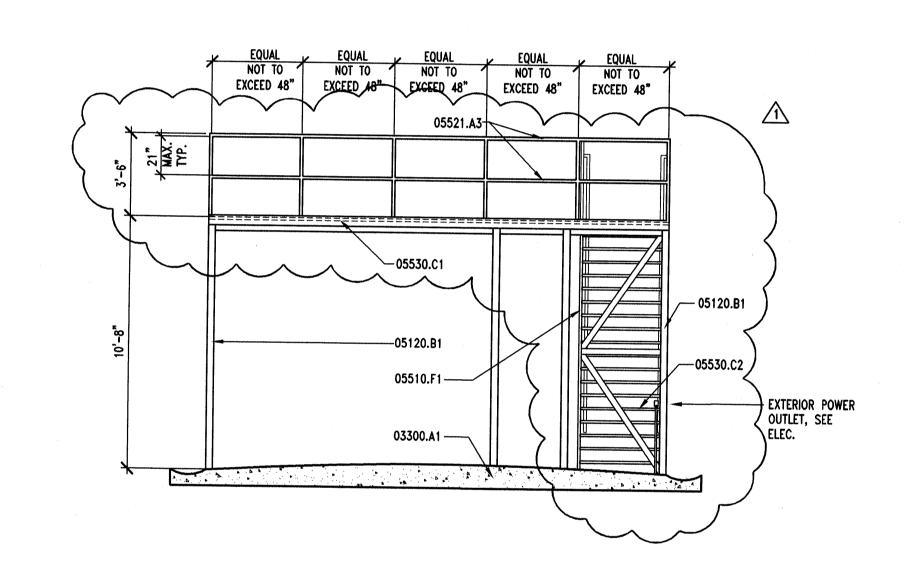
A2 AE703

SHEET TITLE

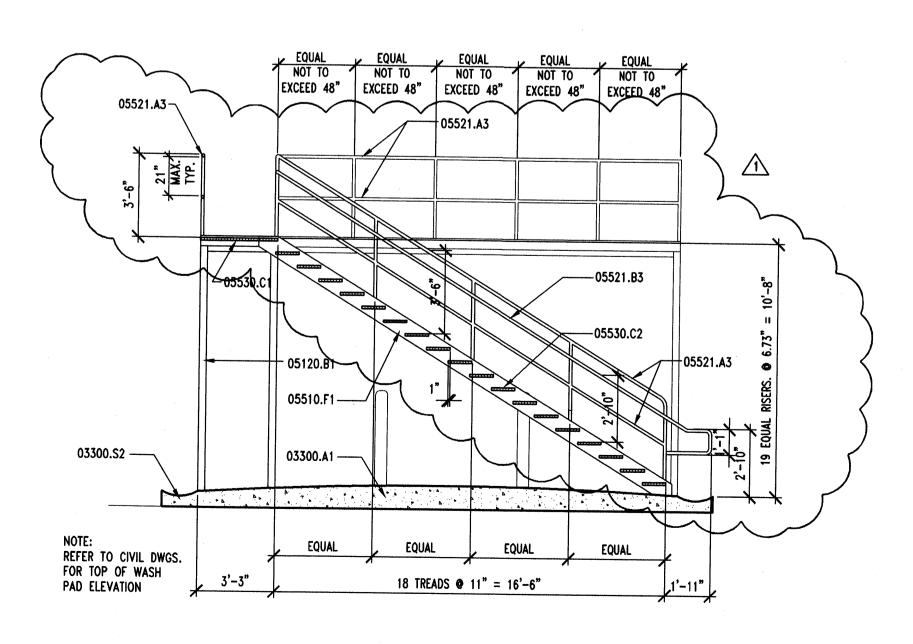
SITE STRUCTURES

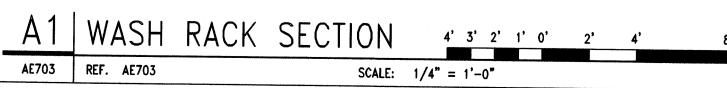
WASH RACK PLAN, SECTION & ELEVS.

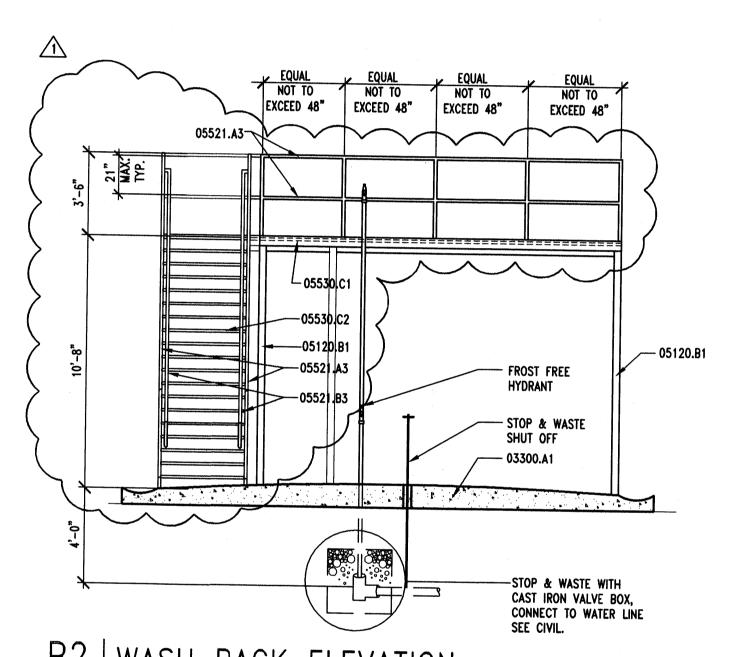
AE703



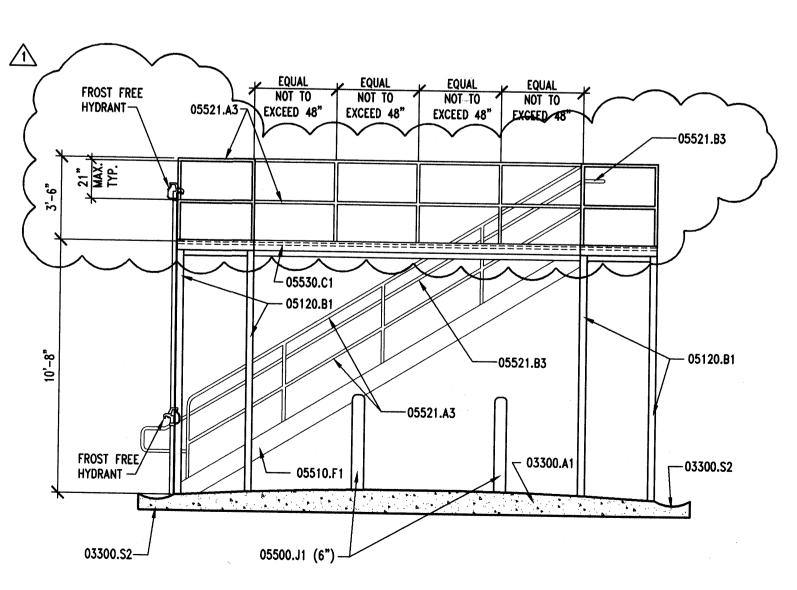








B2 WASH RACK ELEVATION 4' 3' 2' 1' 0' 2' 4'



A2 WASH RACK ELEVATION 4' 3' 2' 1' 0' 2' 4' AE703 REF. AE703 SCALE: 1/4" = 1'-0"



3'-9"

EXTERIOR POWER -OUTLET, SEE ELEC.

03300.S2 -

A3 WASH RACK PLAN 4' 3' 2' 1' 0' 2' 4'

19'-5"

## GENERAL STRUCTURAL NOTES

#### GENERAL

- 1. The structural notes are intended to complement the project specifications. Specific notes and details in the drawings shall govern over the structural notes and typical details.
- Typical details and sections shall apply where specific details are not shown. 3. The contractor shall verify all site conditions and dimensions. If actual conditions differ from those shown in the contract drawings, the contractor shall immediately notify the
- architect/engineer before proceeding with the fabrication or construction of any effected elements. 4. Omissions or conflicts between the contract drawings and/or specifications shall be brought to the attention of the architect/engineer before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the architect/engineer at no additional cost to
- 5. The contractor shall submit a written request to the architect/engineer before proceeding with any changes, substitutions or modifications. Any work done by the contractor before receiving written
- approval will be at the contractor's risk 6. The contractor shall coordinate with all trades any items that are to be integrated into the structural system such as openings, penetrations, mechanical and electrical equipment, etc. Sizes and locations of mechanical and other equipment that differs from those shown on the
- contract drawings shall be reported to the architect/engineer 7. The contractor shall provide adequate shoring and bracing as required for his method of erection. Shoring and bracing shall remain in place until final connections for the permanent members are completed. The building shall not be considered stable until all connections are completed. Walls shall not be considered self-supporting and shall be braced until the floor/roof system is
- 8. Site observations by BHB Consulting Engineers, P.C.'s field representative shall not be construed as approval of construction procedures nor special inspection. 9. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings. The structural drawings shall be used in conjunction with the architectural and other consultant's drawings. Some dimensions and elements such as elevations, depressions, slopes, mechanical
- housekeeping pads, etc. are not shown in the structural drawings. All dimensions shown on structural drawings shall be verified by contractor with architectural, mechanical and electrical 10. Review of shop drawing submittals by BHB Consulting Engineers, P.C. is for general compliance only and is not intended for approval. The shop drawing review shall not relieve the contractor

from the responsibility of completing the project according to the contract documents.

11 Shop drawings made from reproductions of the contract drawings will be rejected unless the contractor signs a release agreement prior to the shop drawings being reviewed. 12. Only an authorized representative of BHB Consulting Engineers, P.C. may make changes to these contract drawings. BHB Consulting Engineers, P.C. shall not be held responsible or liable for any claims arising directly or indirectly from changes made without written authorization by an

#### **BASIS OF DESIGN**

International Building Code 2003 1. Governing Building Code

- 2. Roof Snow Load a. Ground Snow Load  $P_q = 43 \text{ psf}$
- b. Snow Importance Factor  $I_{s} = 1.0$ c. Snow Exposure Coefficient  $C_{e} = 1.0$ d. Thermal Exposure Coefficient  $C_t = 1.0$

authorized representative of BHB Consulting Engineers, P.C.

- $P_f = 0.7 C_e *C_t * I_s P_g = 30 psf plus Snow Drift$ e. Roof Snow Load
- 3. Mezzanine Floor Loads a. Dead

125 psf b. Live

- 4. Seismic Loads a. Short Period Mapped Spectral Acceleration
- b. Soil Site Class c. Short Period Site Coefficient  $F_a = 1.0$ d. 5% Damped Design Spectral Response Acceleration  $S_{DS} = 2/3 * F_a * S_S$

Dead Loads of Structure

- e. Seismic Importance Factor  $l_0 = 1.00$ f. Response Modification Coefficient R = 4.0g. Seismic Response Coefficient  $C_s = S_{DS} * I_e / R$
- . Building Seismic Design Category
- System Overstrength Factor Deflection Amplification Factor V= C<sub>S</sub> \* W = 0.263 W (Strength Design) I. Base Shear
- 4. Wind Loads
  - a. Wind Velocity (3 Second Gust) b. Exposure Type
- c. Wind Importance Factor

## **FOUNDATION**

- . Soils Investigation Report: Terracon Consultants, Inc. dated May 31, 2006. 2. Soil bearing pressure: 2000 psf on undisturbed native soil or properly compacted structural fill.
- Frost Protection: 30 inches minimum. 4. Clear excavations of debris and loose soil prior to placing footings. All footings shall bear on undisturbed natural sub-grade or engineered compacted fill as noted in the soils report.

## **EARTHWORK**

1. Consult the project specifications and soils report for further earthwork requirements.

#### CONCRETE

#### Materials, unless noted otherwise: a. Normal weight aggregates

d. Admixtures:

- ASTM 615 Grade 60 (Fy = 60 ksi) b. Reinforcing Steel Use Grade 40 (Fy = 40 ksi) for field bent dowels with
- spacings indicated reduced by 1/3. c. Deformed Bar Anchors (DBA) ASTM A496
- i. Air-entraining admixtures comply with ASTM C 260 (when used). ii Calcium chloride shall not be added to the concrete mix. e. Type I cement complying with ASTM C-150 shall be used for all concrete.
- f. The water/cement ratios shall meet the requirements of ACI 318. Provide air entraining as recommended by ACI 318.
- h. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete. . Compressive strengths of concrete at 28 days shall be as follows
- a. Footings .... b. Interior Slabs on Grade ... ... 4.000 psi
- . 3.000 psi
- d. Normal Weight concrete over Steel Deck ......... 3,500 psi
- e. All Site Concrete ..... 3. 5 1/2" thick (total thickness) normal weight concrete slab shall be poured over the steel deck. Reinforce slab with 6" x 6" - W2.1/W2.1 welded wire fabric minimum, unless noted otherwise.
- Welded Wire Fabric shall be placed 1" to 1-1/2" below the top of the slab. a. At contractor's option, the welded wire fabric may be substituted with 100% virgin polypropylene synthetic fiber containing no reprocessed olefin materials and specifically manufactured to an optimum gradation for use as concrete secondary reinforcement.
- Application shall be 1.5 lbs minimum per cubic yard. Only one grade or type of concrete shall be poured on the site at any given time. The contractor shall be responsible for the design, detailing, care, placement and removal of all
- formwork and shores. a. Supporting forms and shoring shall not be removed until structural members have acquired sufficient strength to safely support their own weight and any construction load to which they may be subjected. In no case, however, shall forms and shoring be removed in less than 24 hours after concrete placement.

. Clear Cover

- b. Suspended slabs shall be re-supported after form removal until concrete reaches its 28-day
- specified compressive strength. Reinforcement shall have the following concrete cover Cast-in-place Concrete: . a. Cast against and permanently exposed to earth... b. Formed concrete exposed to earth or weather
- #6 thru #18 bars ... #5 and smaller bars. c. Concrete not exposed to weather or in contact with ground:
- Slabs, Walls, Joists; #11 bars and smaller .... Beams, Columns: Primary Reinf., Ties, Stirrups, Spirals .......1-1/2" 7. Construction Joints and Control Joints: a. Provide a formed and beveled 2 x 4 x continuous keyway in all horizontal and vertical
- otherwise. In addition, all joints shall be intentionally roughened to a full amplitude of approximately 1/4 inch. b. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no

construction joints including between top of footing and foundation walls, unless noted

- more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. Control joints may be installed by:
- Saw cut a depth of 1/4 the thickness of the slab Tooled joints a depth of 1/4 the thickness of the slab
- c. Install construction or control joints in slabs on grade at a spacing not to exceed 75 times the slab thickness in any direction for reinforced slabs, unless noted otherwise. Construction joints shall not exceed a distance of 125'-0" o.c. in any direction. d. In exposed areas, install construction or control joints in concrete over metal deck at a
- spacing not to exceed 10 feet o/c. Coordinate location with architectural drawings. a. Use chairs or other support devices recommended by the CRSI to support and tie reinforcement bars and WWF prior to placing concrete. WWF shall be continuously
- supported at 36" o.c. maximum. Reinforcing steel for slabs on grade shall be adequately supported on precast concrete units. Lifting the reinforcing off the grade during placement of concrete is not permitted.
- b. Concrete to be mechanically consolidated during placement per ACI standards. c. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
- d. All embeds and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete. e. No pipes, ducts, sleeves, etc shall be placed in structural concrete unless specifically detailed or approved by the structural engineer. Penetrations through walls when approved shall be
- built into the wall prior to concrete placement. Penetrations will not be allowed in footings or grade beams unless detailed. Piping shall be routed around these elements and footings stepped to avoid piping. Reinforcing Bars shall not be welded. Do not substitute reinforcing bars for DBAs or HSAs.
- 9. Detailing: a. Lap splice lengths shall be detailed to comply with the "Reinforcing Bar Lap Splice Schedule" on sheet S601. Splices may be made with mechanical splices capable of 125% tension
- capacity of the bar being spliced. Mechanical splices shall be the positive connecting type coupler and shall meet all Uniform Building Code requirements. Use "Cadweld", "Lenton" Standard Couplers, "Bar-Lock" or equal with internal protector. If mechanical splices are used, splices or couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
- b. At joints provide reinforcing dowels to match the member reinforcing, unless noted otherwise. c. At all discontinuous control or construction slab on grade joints, provide 2 - #4 x 48 inches. d. Provide corner bars at intersecting wall corners using the same bar size and spacing as the
- horizontal wall reinforcing. e. All vertical reinforcing shall be doweled to footings, or to the structure below with the same size and spacing as the vertical reinforcing for the element above. Dowels extending into footings shall terminate with a 90 degree standard hook and shall extend to within 4" of the bottom of the footing. Footing dowels (#8 bars and smaller) with hooks need not extend more
- than 20" into footings. Horizontal wall reinforcing shall terminate at ends of walls and openings into the far end of the jamb column with a 90-degree standard hook plus a 6 bar diameter extension. Horizontal wall reinforcing shall be continuous through construction and control joints.
- g. See detail B2/S501 for reinforcing around miscellaneous openings (8" to 36" wide). For openings wider than 36", contact the engineer. All recesses that interrupt reinforcing shall be reinforced the same as an opening.

#### **EPOXY**

- 1. Epoxy shall be "HIT HY 150 MAX" or "HIT RE 500 " by Hilti Corporation, "Anchor-It" by Adhesive Technology Corporation, "Epcon Injection System" by Ramset/Redhead, "Power-Fast" by Rawl, or
- approved equal. 2. All drilled holes shall be 1/8 inch larger than the bar or anchor bolt being installed. 3. After drilling the proper size hole, clean the walls and bottom of the hole of all dust and debris using a nylon brush in conjunction with oil free compressed air. The hole shall be free of dust, debris and
- 4. Follow all manufacturer's recommendations for epoxy installation.

#### STRUCTURAL STEEL

- - ASTM A36 a. Other shapes & Plates b. Deformed Bar Anchors (DBA) ASTM A496
- ASTM A325 c. Bolted Connections: 2. Fabrication and construction shall comply with the latest edition of the following Codes and
- a. American Institute of Steel Construction (AISC), "Specification for the Design, Fabrication and Erection of Structural Steel for Buildings," with "Commentary".
- b. AISC "Code of Standard Practice" excluding the following: Section 3.4, Section 4.4, Section c. AISC "Specification for Structural Joints Using ASTM A325 or A490 Bolts"
- d. American Welding Society (AWS), Structural Welding Code (specific items do not apply when they conflict with the AISC requirements).
- e. AISC "Seismic Provision for Structural Steel Buildings"
- a.  $\bar{\mathsf{All}}$  welding and cutting shall be performed by AWS certified welders. b. Use E-70 XX or as noted otherwise.
- c. All intersecting steel shapes which are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Where fillet weld sizes are not shown they shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected part.
- d. Reinforcing Bars: Do not weld rebar. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors(HSAs). e. Do not weld anchor bolts, including "tack" welds.
- f. Headed Stud Anchors (HSAs) welding and deformed bar anchor welding shall conform to the manufacturer's specifications. 4. Bolted Connections:
- a. Use ASTM A325N bolts for steel to steel connections, as noted herein or as noted on the drawings. A325N bolts shall be used in connections for simple span framing and beam (or
- girder) to bearing plate connections. Tighten bolts to a snug tight condition. b. Use hardened washers beneath the turned element of all bolts or nuts. Use hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. At oversized holes hardened washers or plates shall conform with ASTM F-436 and shall
- completely cover the slot after installation. c. Where a steel to steel beam connection is not shown, provide a standard AISC framed connection for one half the total uniform load capacity of the beam for the span and steel
- d. Bolts, nuts and washers shall not be reused.

#### **METAL DECKING**

- Steel deck shall comply with the latest requirements of the Steel Deck Institute. 2. All deck shall be 3-span continuous minimum. In areas where 3-span conditions are not possible,
- the contractor shall provide heavier gauge deck as required to provide the equivalent loading of the deck under a three span condition.
- 3. All deck supporting members shall be dry before welding.
- Crimp seams before button punching or welding interlocking seams. 5. Where deck is to receive sprayed-on fire proofing, deck shall be coated, as required, with special paint that will allow the sprayed-on fire proofing to adhere to the deck.

- a. Steel floor deck shall be 2" deep X 20 gauge minimum Non-Composite Formlock deck with interlocking side seams and #10 screws at 8" o.c. with the following properties: Minimum S (in<sup>3</sup>/<sub>t</sub>) = 0.361
- Minimum I  $(in^4/_{R}) = 0.423$
- b. Steel deck with 5 1/2" thick (overall thickness) normal weight concrete slab shall have a minimum diaphragm shear capacity of 450 lbs/ft. for a 1 deck span. c. Deck Attachment:
- i. Frame Fastening: #12 STS @ 36/4 Pattern. ii Stitch Fastening: (1) # 10 STS per plan.
- d. Attach interlocking seams with 3/16" Ø button punch at 18" o.c., or with 1 1/2" top seam weld at 36" o.c. or with Verco PunchLok System at 36" o.c. or with ASC DeltaGrip Sytsem at 36"o/c Closer spacings may be used to develop minimum shear requirements.
- e. Provide a 2-inch minimum bearing at supports.

## **COLD-FORMED STEEL**

- 1. All cold-formed steel shall meet the requirements of "Specifications for the Design of Cold-Formed Steel Structural Members" by American Iron and Steel Institute (AISI). 2. Light Gauge Steel Framing:
- a. Galvanized steel must meet the minimum requirements of ASTM A446 Grade D (Fy = 50 ksi) for 12, 14 and 16-gauge and ASTM A446 Grade A (Fy = 33 ksi) for 18-gauge and lighter. Galvanized coatings must meet the ASTM A525 specification.
- b. Follow all manufacturers' recommendations for the use of these products. c. Unless noted otherwise, all welded connections shall be done according to AWS standards d. All interior non-bearing steel-stud walls that extend above the ceiling but do not attach to the structure above shall be brace with diagonal metal-stud braces (45 degrees). The kl/r ratio of

the brace shall not exceed 200 and shall not be spaced further apart than 10'-0" o/c.

Connect diagonal braces to the top of the steel stud walls and to the top flange of the steel

beams with two #10 tek screws minimum. Where a concrete deck occurs above, use two powder-driven fasteners per diagonal brace. Other approved methods may be used. 3. Prefabricated Systems: Submit complete shop drawings and calculations of all elements for review. Shop Drawings shall bear the stamp of a Professional Engineer registered in the State of Utah.

#### PREFABRICATED METAL BUILDING

- 1. The design, fabrication and erection of all prefabricated elements and associated hardware shall comply with the latest requirements of the IBC, AISC, SDI and AISI.
- 2. Prior to fabrication and installation of anchor bolts, the metal building supplier shall submit complete shop drawings and calculations including reactions bearing the stamp of a Registered Design Professional licensed in the State of Utah. Complete calculations shall be submitted with the shop
- 3. Do not modify any structural element of the prefabricated metal building without the written consent and direction from the manufacturer. Send copies of the consent and modifications to the Architect
- 4. The design of the premanufactured structural roof system including the steel deck, joists, girders, columns, and the lateral force resisting system (including rigid frames) is the responsibility of the premanufactured metal building supplier. Refer to the prefabricated structural roof system supplier's drawings and calculations for the exact gravity roof load values and for the design of the roof and

### SPECIAL INSPECTION AND QUALITY ASSURANCE

Special inspection and quality assurance, as required by section 1704 of the IBC, shall be provided by an independent agency employed by the owner unless waived by the building official. The contractor shall coordinate and cooperate with the required inspections. All testing and inspection reports shall be sent within 24 hours of the test to the architect, engineer and contractor for review. Special inspection during fabrication is not required if the fabricator is registered and approved to perform such work with

- out special inspection. Items requiring special inspection and quality assurance are: 1. Soils (IBC 1704.7) a. Prior to placement of the prepared fill, the special inspector shall determine that the site
  - has been prepared in accordance with the soils report. b. During placement and compaction of the fill material, the special inspector shall determine that the material being used and the maximum lift thickness comply with the soils report.
- c. The special inspector shall determine that the in-place dry density of the compacted fill material complies with the soils report. Continuous Footing Backfill: At each compacted backfill layer, at least one test for each
- 25 linear feet or less of wall length, but no fewer than 2 tests. ii. Spot Footing Backfill: Minimum of one compaction test for each lift for each spot footing.
  d. See specifications for further requirements.
- 2. Concrete placement (IBC Section 1704.4) a. Continuous special inspection shall be provided
- b. Cylinders, slump, temperature and air-entrainment shall be done for every 50 cubic yards or each day's production if less than 50 cubic yards.
- c. See specifications for further concrete testing requirements. 3. Bolts installed in concrete (IBC Section 1704.4)
- a. All bolts shall be inspected prior to and during concrete placement. 4. Embeds and Inserts installed in concrete (IBC Section 1704.4)
- a. All embeds and inserts shall be inspected prior to and during concrete placement. 5. Concrete reinforcing steel placement (IBC Section 1704.4)
- a. All Reinforcing shall be inspected prior to concrete placement 6. Structural welding, including steel deck (IBC 1704.3)
- a. Periodic special inspection of metal floor prior to concrete placement and roof decks. b. Periodic special inspection of single pass fillet welds less than or equal to 5/16"
- c. Continuous special inspection of single pass fillet welds greater than 5/16" and multi-pass fillet welds.
- d. Continuous special inspection of complete and partial penetration welds. 7. High Strength bolted connections (IBC Section 1704.3.3)
- a. Periodic special inspection of bearing type connections. Continuous special inspection of slip critical connections. Special inspector shall be present to observe the pre-installation testing and calibration procedures.
- 8. Epoxy Anchors (IBC Section 1704.13) a. Special inspection shall verify all drilled holes' size and depth prior to installation of epoxy and anchor rod.

## DEFERRED SUBMITTALS

For the purpose of this section, deferred submittals are defined as per section 106.3.4.2 of the IBC. Submittal documents for deferred submittal items shall be submitted to the engineer/architect for their review for general conformance with the design of the building. Deferred structural submittals for this

1. Prefabricated Metal Building

LEGEND OF MARKS AND ABREVIATIONS				
AB ABV	ANCHOR BOLT(S) ABOVE	JST	JOIST	
ALT	ALTERNATE	k	KIP(S) = 1000 POUNDS	
APPROX		KLF	KIPS PER LINEAL FOOT	
ARCH	ARCHITECT(URAL)	KSF	KIPS PER SQUARE FOOT	
BLDG	BUILDING	LBS	POUNDS	
BLW	BELOW	LF	LINEAL FOOT	
BM	BEAM	LLH	LONG LEG HORIZONTAL	
BOT	BOTTOM	LLV	LONG LEG VERTICAL	
BRG BTWN	BEARING BETWEEN	LSV	LONG SIDE VERTICAL	
DIVVIN	DETWEEN	MAX	MAXIMUM	
CC.	CENTER-TO CENTER	MECH	MECHANICAL	
C.J.	CONST/CONTROL JOINT	MFR	MANUFACTURER	
COL	COLUMN	MIN	MINIMUM	
CONC	CONCRETE	MISC	MISCELLANEOUS	
CONST	CONSTRUCTION	<b>N</b> 110	NOT IN CONTRACT	
CTR	CENTER	NIC NTS	NOT IN CONTRACT	
CW-x	CONCRETE WALL	NIS	NOT TO SCALE	
DBA	DEFORMED BAR ANCHOR	O.C.	ON CENTER	
DBE	DECK BEARING ELEVATION	O.F.	OUTSIDE FACE	
DBL	DOUBLE	OPNG	OPENING	
DET	DETAIL	OPP	OPPOSITE	
DIA	DIAMETER	DOE	POUNDS PER CUBIC FO	
DIM	DIMENSION	PCF PL	PLATE	
DN DWG	DOWN DRAWING	PL PLF	POUNDS PER LINEAL FO	
DWL	DOWEL	PSF	POUNDS PER SQUARE	
DVVL	DOWLE	PSI	POUNDS PER SQUARE	
EA	EACH	PT	POINT	
Ē.F.	EACH FACE			
ELEC	ELECTRICAL	REINF	REINFORCING	
ELEV	ELEVATION	REQD	REQUIRED	
EQUIP	EQUIPMENT			
EQ	EQUAL			
E.W.	EACH WAY	SHT	SHEET	
EXST	EXISTING	SI	SPECIAL INSPECTION	

TEMPERATURE THREADS GALVANIZED
GENERAL STRUCTURAL NOTES TOP OF CONCRETE TOP OF DECK TOP OF FOOTING TOP OF WALL HORIZ HT HORIZONTAL

> INTERNATIONAL BUILDING CODE VERTICAL INTERIOR WELDED WIRE FABRIC WELDED WIRE MESH

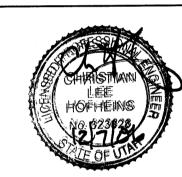
INTERNATIONAL CONFERENCE

OF BUILDING OFFICIALS

ARCHITECT(URAL)	KSF	KIPS PER SQUARE FOOT	
BUILDING BELOW	LBS LF LLH	POUNDS LINEAL FOOT LONG LEG HORIZONTAL	
BEAM BOTTOM	LLV	LONG LEG HORIZON FAL	
BEARING	LSV	LONG SIDE VERTICAL	
BETWEEN	201		
	MAX	MAXIMUM	
CENTER-TO CENTER	MECH	MECHANICAL	
CONST/CONTROL JOINT	MFR	MANUFACTURER	
COLUMN	MIN	MINIMUM	
CONCRETE	MISC	MISCELLANEOUS	
CONSTRUCTION	NIIO	NOT IN CONTRACT	
CENTER CONCRETE WALL	NIC NTS	NOT TO SCALE	
CONCRETE WALL	NIS	NOT TO SCALE	
DEFORMED BAR ANCHOR	O.C.	ON CENTER	
DECK BEARING ELEVATION	O.F.	OUTSIDE FACE	
DOUBLE	OPNG	OPENING	
DETAIL	OPP	OPPOSITE	
DIAMETER			
DIMENSION	PCF	POUNDS PER CUBIC FOOT	
DOWN	PL_	PLATE	
DRAWING	PLF	POUNDS PER LINEAL FOOT	
DOWEL	PSF	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	
EACH	PSI PT	POINT	
EACH FACE	FI	FOINT	
ELECTRICAL	REINF	REINFORCING	
ELEVATION	REQD	REQUIRED	
EQUIPMENT			
EQUAL			
EACH WAY	SHT	SHEET	
EXISTING	SI	SPECIAL INSPECTION	
EXPANSION	SIM	SIMILAR	
EXTERIOR	SOG SQ	SLAB-ON-GRADE SQUARE	
CONTINUOUS FOOTING MARK	STAG	STAGGERED	
FLOOR DRAIN	STD	STANDARD	
FOUNDATION	STL	STEEL	
FINISHED FLOOR	STR	STRUCTURAL	
SQUARE FOOTING MARK	STS	SELF TAPPING SCREWS	

UNLESS NOTED OTHERWISE

PROFESSIONAL SEAL



CLEARFIELD

MAINTENANCE

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

architecture · planning · design services

1135 South West Temple, Ste. A

Salt Lake City, UT 84101

P:(801) 961-7070

F:(801) 961-7373

**BHB** Consulting Engineers

DESIGNER

CONSULTANTS

12/08/06 CONSTRUCTION DOCUMENTS

8/28/06 95% DESIGN SUBMITTAL

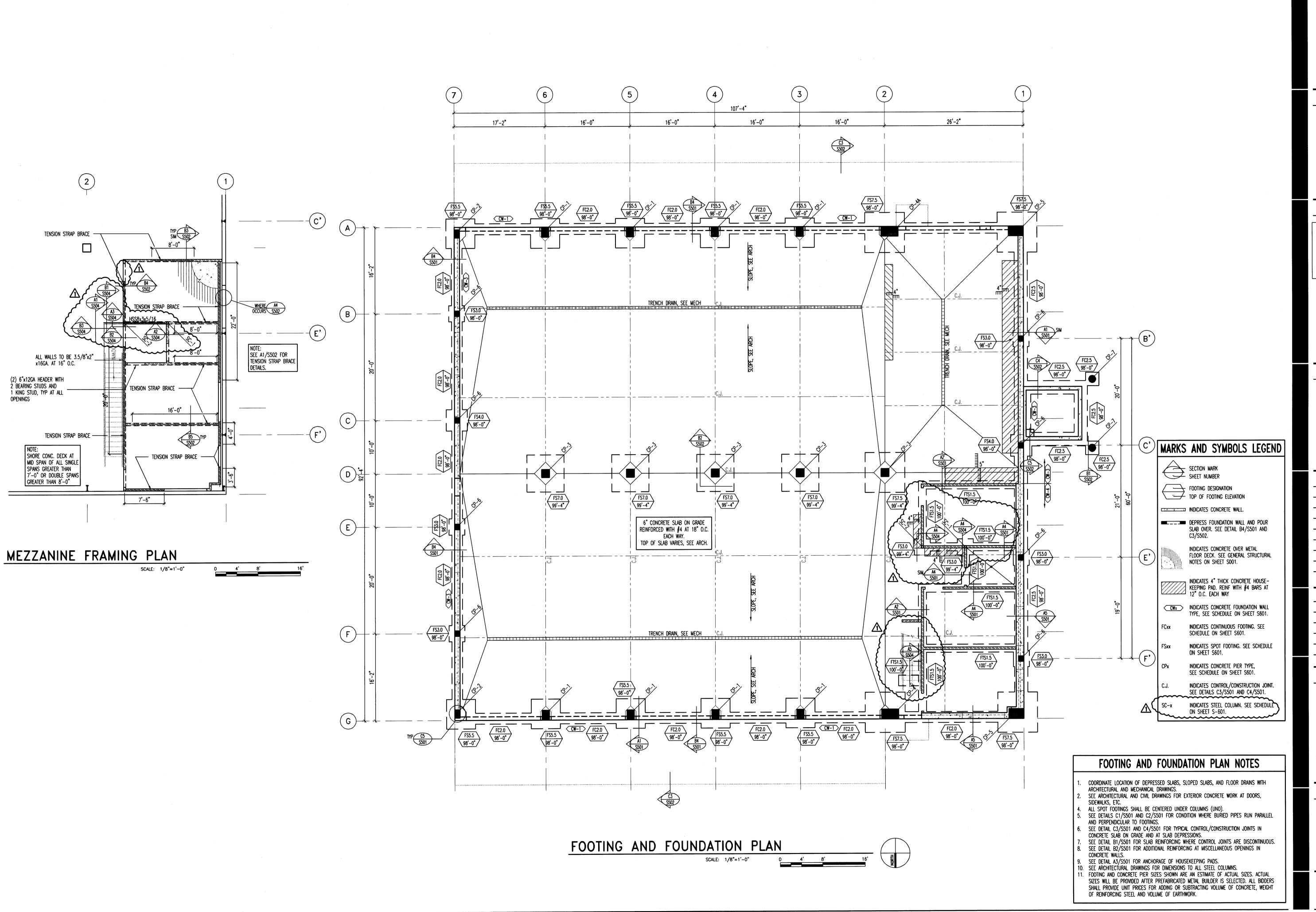
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION DFCM CONTRACT NO: 067477 DFCM PROJECT NO: 06034900 BHB PROJECT NO: 06162 C. BROWN DRAWN BY: CHECKED BY: G. McKENZIE SCALE: AS SHOWN DATE: DECEMBER 8, 2006

SHEET TITLE

KEY PLAN

**GENERAL** 



CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNE



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



PROFESSIONAL SEAL



ISSUE

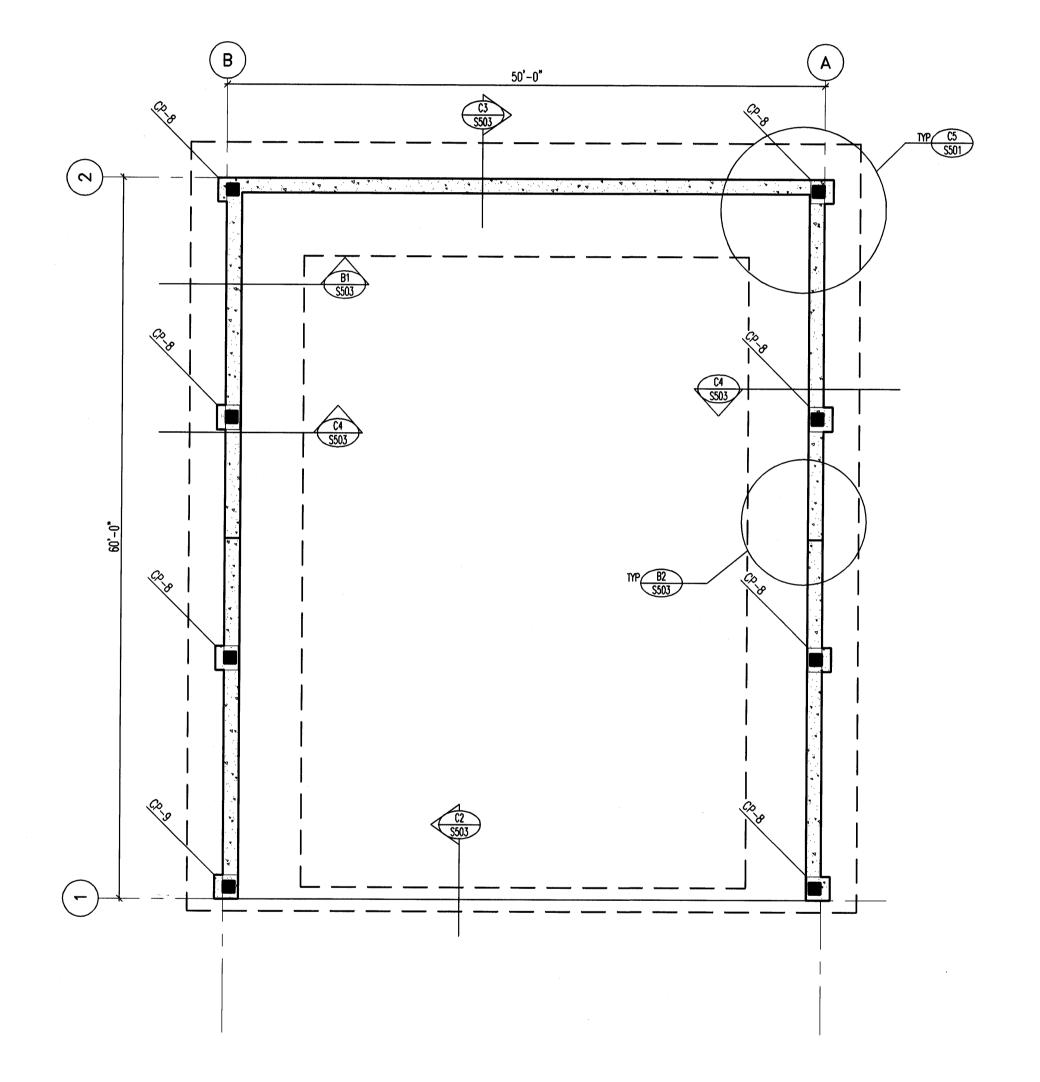
1/15/07 DFCM REVIEW COMMENTS
12/08/06 CONSTRUCTION DOCUMENTS
8/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION DFCM CONTRACT NO: 067477 DFCM PROJECT NO: 06034900 BHB PROJECT NO: 06162 C. BROWN DRAWN BY: G. McKENZIE CHECKED BY: AS SHOWN SCALE: DATE: DECEMBER 8, 2006 KEY PLAN

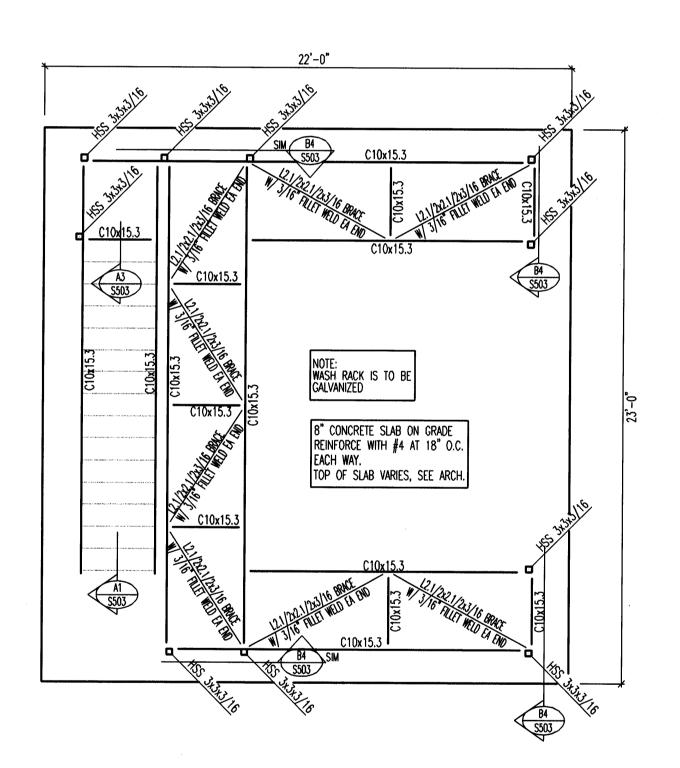
SHEET TITLE

FOOTING AND FOUNDATION PLAN

S101



SALT STORAGE BLD FOOTING AND FOUNDATION PLAN



WASH RACK PLAN

SCALE: 1/4"=1'-0"

MARKS AND SYMBOLS LEGEND

SECTION MARK
SHEET NUMBER

SHEET NUMBER

FOOTING DESIGNATION
TOP OF FOOTING ELEVATION

INDICATES CONCRETE WALL.

DEPRESS FOUNDATION WALL AND POUR SLAB OVER. SEE DETAIL B4/S501 AND C3/S502.

INDICATES CONCRETE OVER METAL FLOOR DECK. SEE GENERAL STRUCTURAL NOTES ON SHEET S001.

INDICATES 4" THICK CONCRETE HOUSE-KEEPING PAD. REINF WITH #4 BARS AT 12" O.C. EACH WAY

INDICATES CONCRETE FOUNDATION WALL TYPE, SEE SCHEDULE ON SHEET S601.

TYPE, SEE SCHEDULE ON SHEET S601.

FCxx INDICATES CONTINUOUS FOOTING. SEE SCHEDULE ON SHEET S601.

FSxx Indicates spot footing, see schedule on sheet s601,

CPx INDICATES CONCRETE PIER TYPE, SEE SCHEDULE ON SHEET S601.

C.J. INDICATES CONTROL/CONSTRUCTION JOINT. SEE DETAILS C3/S501 AND C4/S501.

## FOOTING AND FOUNDATION PLAN NOTES

 COORDINATE LOCATION OF DEPRESSED SLABS, SLOPED SLABS, AND FLOOR DRAINS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS,

SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE WORK AT DOORS, SIDEWALKS, ETC.
 ALL SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS (UNO).
 SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL

SEE DETAILS C1/S501 AND C2/S501 FOR CONDITION WHERE BURIED PIPES RUN PARALLEL AND PERPENDICULAR TO FOOTINGS.
 SEE DETAIL C3/S501 AND C4/S501 FOR TYPICAL CONTROL/CONSTRUCTION JOINTS IN

CONCRETE SLAB ON GRADE AND AT SLAB DEPRESSIONS.

7. SEE DETAIL B1/S501 FOR SLAB REINFORCING WHERE CONTROL JOINTS ARE DISCONTINUOUS.

8. SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN

SEE DETAIL B2/S501 FOR ADDITIONAL REINFORCING AT MISCELLANEOUS OPENINGS IN CONCRETE WALLS.
 SEE DETAIL A3/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.
 SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

SEE DETAIL A3/S501 FOR ANCHORAGE OF HOUSEKEEPING PADS.

SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO ALL STEEL COLUMNS.

FOOTING AND CONCRETE PIER SIZES SHOWN ARE AN ESTIMATE OF ACTUAL SIZES. ACTUAL SIZES WILL BE PROVIDED AFTER PREFABRICATED METAL BUILDER IS SELECTED. ALL BIDDERS SHALL PROVIDE UNIT PRICES FOR ADDING OR SUBTRACTING VOLUME OF CONCRETE, WEIGHT OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

CLIENT

CLEARFIELD MAINTENANCE FACILITY

NAMED



STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



PROFESSIONAL SEAL



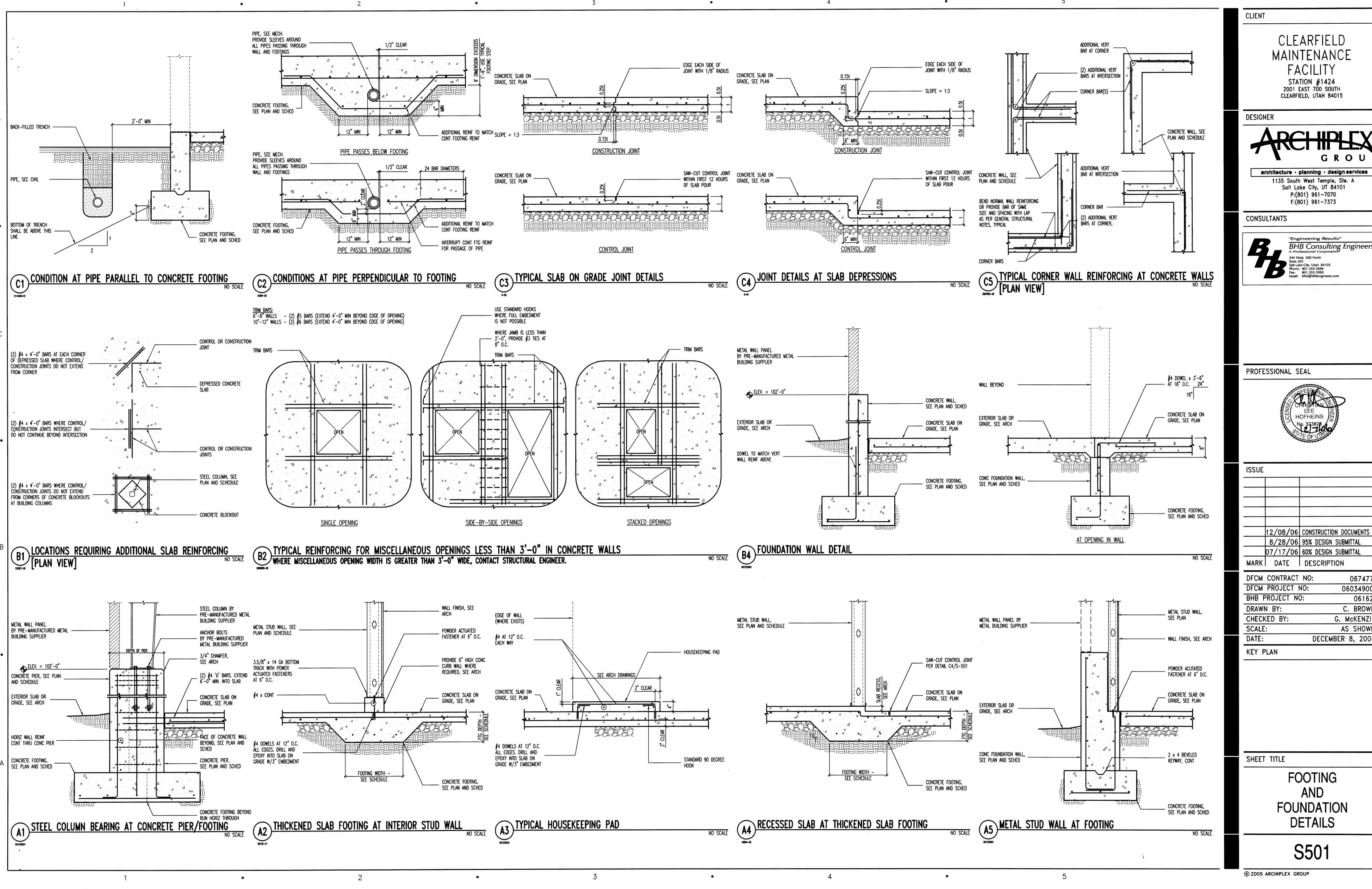
12/08/06 CONSTRUCTION DOCUMENTS
8/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL

MARK DATE	DESCRIPTION
DFCM CONTRACT	00/4//
DFCM PROJECT N	0000+000
BHB PROJECT NO	: 06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

FOOTING AND FOUNDATION PLAN

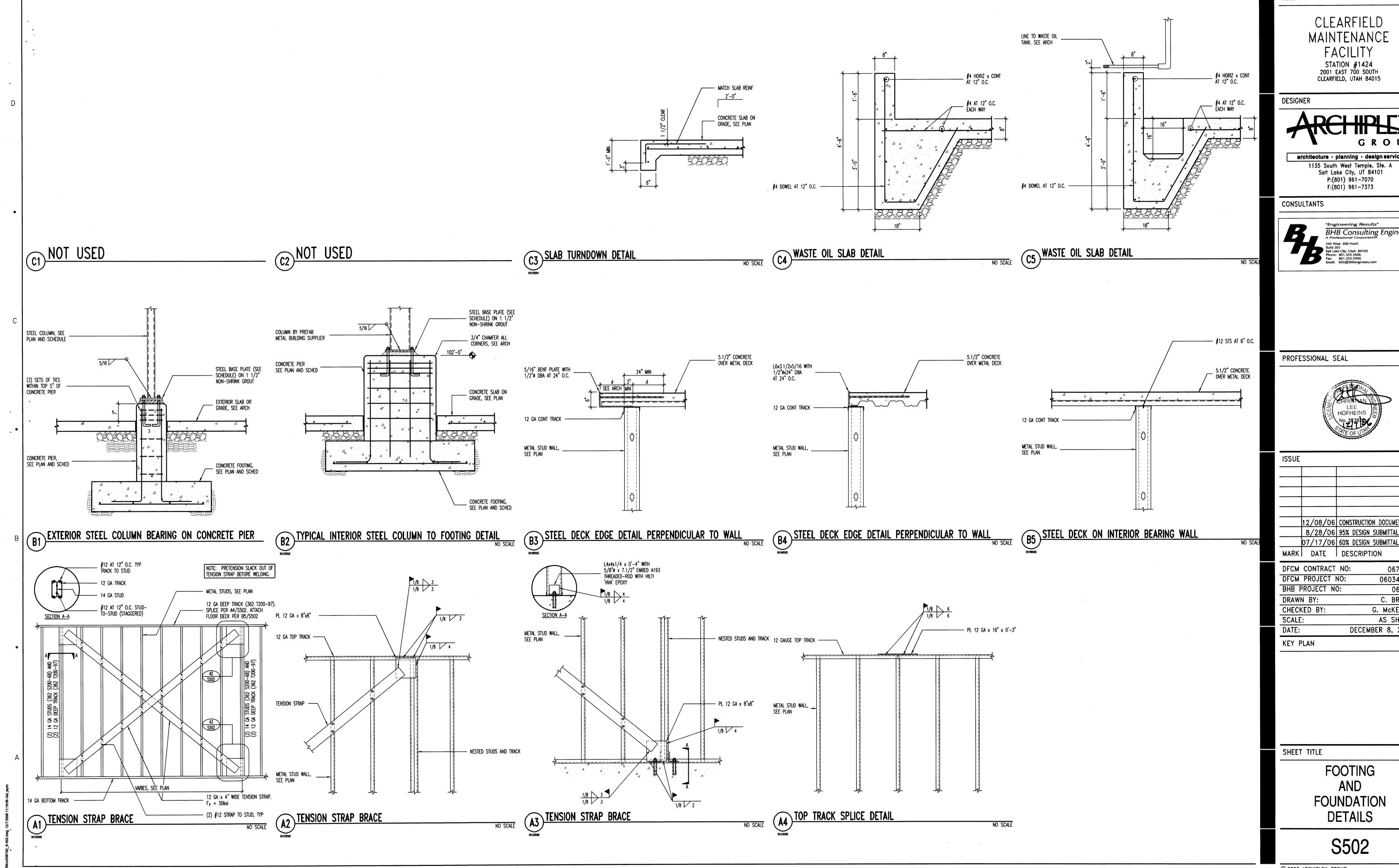
S102





12/08/06 CONSTRUCTION DOCUMENTS

DFCM CONTRACT NO	): 067 <b>4</b> 77
DFCM PROJECT NO:	06034900
BHB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
MEN DIANI	



CLEARFIELD MAINTENANCE FACILITY STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015



architecture • planning • design services 1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373



PROFESSIONAL SEAL



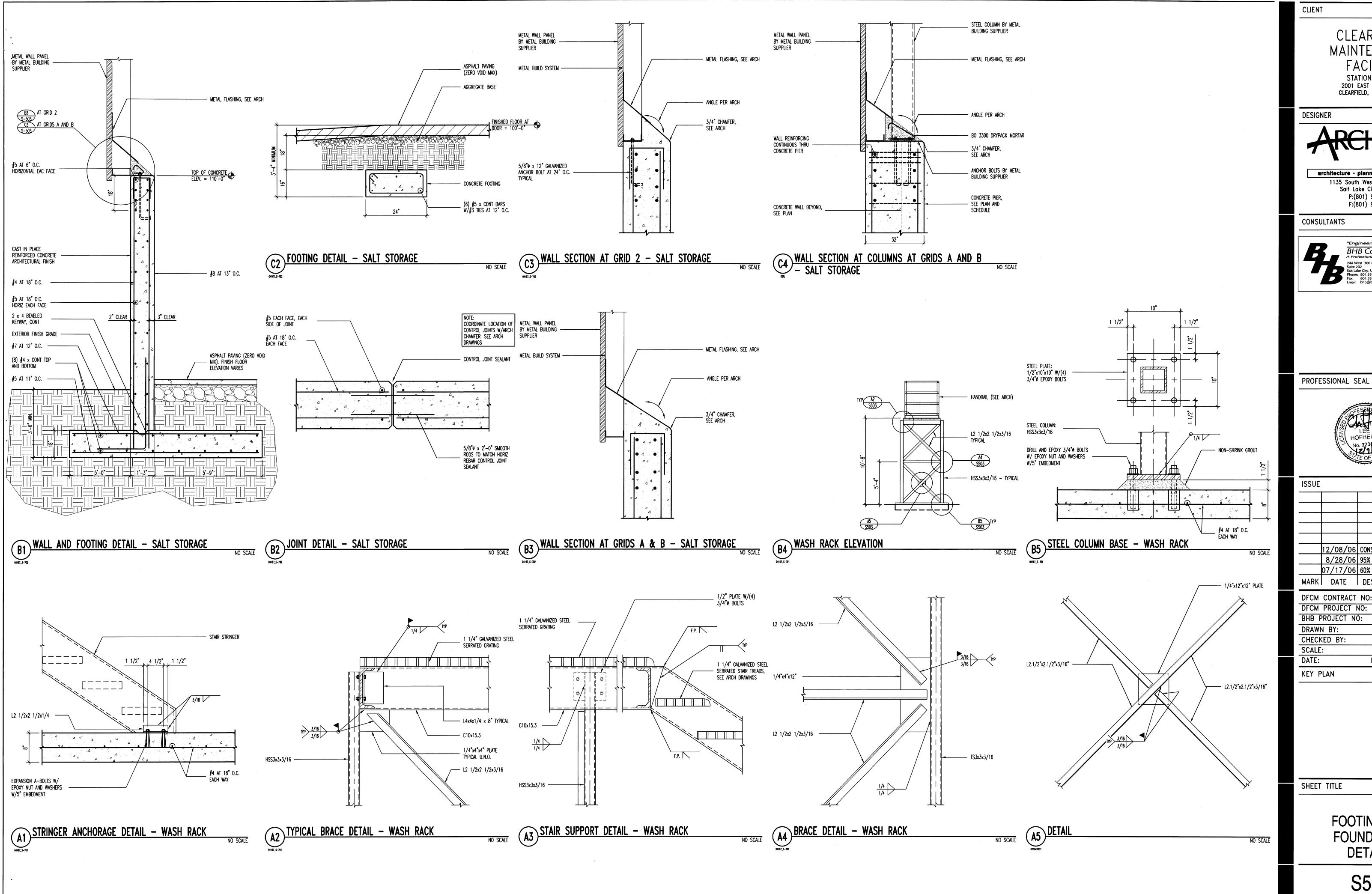
12/08/06 CONSTRUCTION DOCUMENTS 8/28/06 95% DESIGN SUBMITTA

MARK DATE DESCRIPTION

067477
06034900
06162
C. BROWN
G. McKENZIE
AS SHOWN
DECEMBER 8, 2006

**FOOTING** AND **FOUNDATION DETAILS** 

S502



CLEARFIELD MAINTENANCE **FACILITY** 

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

# A DCLUDI TV GROU

architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373



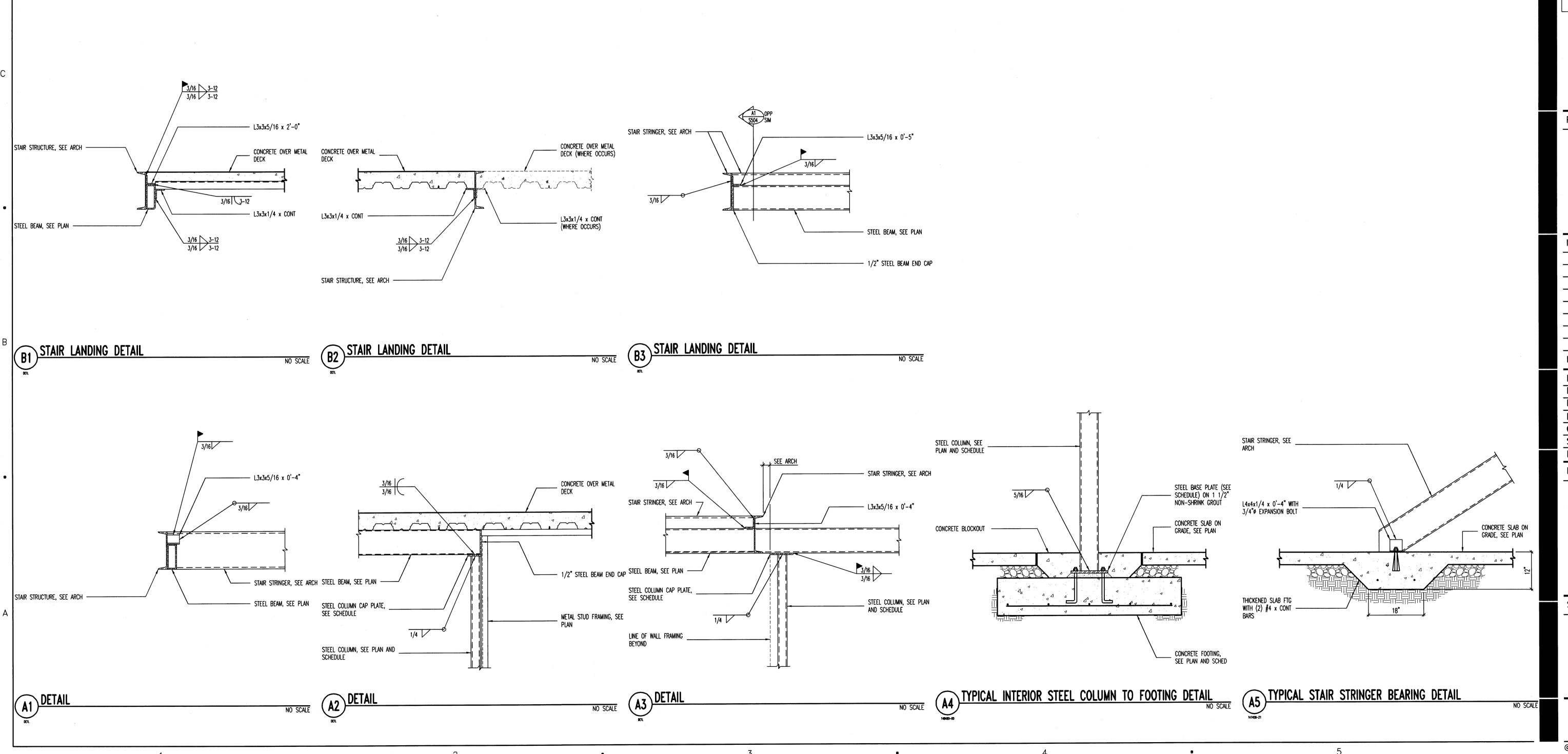


ISSUE		
•		
	·	
	12/08/06	CONSTRUCTION DOCUMENTS
	8/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO	D: 067477
DFCM PROJECT NO:	06034900
BHB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

FOOTING AND **FOUNDATION DETAILS** 

S503



## CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



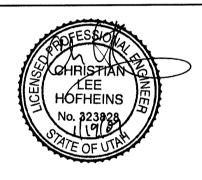
architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



PROFESSIONAL SEAL



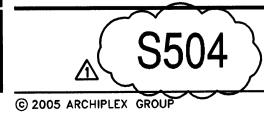
ISSUE										
	1/15/07	DFCM REVIEW COMMENTS								
	12/08/06									
	8/28/06	95% DESIGN SUBMITTAL								
	07/17/06	60% DESIGN SUBMITTAL								
MARK	DATE	DESCRIPTION								

DECM CONTRACT NO	067477
DFCM PROJECT NO:	06034900
BHB PROJECT NO:	06162
DRAWN BY:	C. BROWN
CHECKED BY:	G. McKENZIE
SCALE:	AS SHOWN
DATE:	DECEMBER 8, 2006
KEY PLAN	

\_\_\_\_\_

SHEET TITLE

MEZZAZINE STAIR DETAILS



	CONCRETE FOOTING SCHEDULE											
MARK	WIDTH	LENGTH	DEPTH		REINFOR	CING CROSS	WISE		REINFOR	CING LENGTH	IWISE	COMMENTS
		LLIVOITI		No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	COMMENTS
FTS1.5	1'-6"	CONT	12"	-	-	_	_	2	#4	CONT	EQ	THICKENED SLAB
EC2 ()	2'-0"	CONT	40"									
FC2.0		CONT	12"	-	_	-	_	3	#4	CONT	EQ	
FC2.5	2'-6"	CONT	12"	-	#5	2'-0"	14"	3	#5	CONT	EQ	
FS2.5	2'-6"	2'-6"	12"	3	#5	2'-0"	EQ	3	#5	2'-0"	EQ	
FS3.0	3'-0"	3'-0"	12"	3	#5	2'-6"	EQ	3	#5	2'-6"	EQ	
FS3.5	3'-6"	3'-6"	12"	3	#5	3'-0"	EQ	3	#5	3'-0"	EQ	
FS4.0	4'-0"	4'-0"	12"	4	#5	3'-6"	EQ	4	#5	3'-6"	EQ	
FS4.5	4'-6"	4'-6"	12"	4	#5	4'-0"	EQ	4	#5	4'-0"	EQ	
FS5.0	5'-0"	5'-0"	12"	5	#5	4'-6"	EQ	5	#5	4'-6"	EQ	
FS5.5	5'-6"	5'-6"	12"	5	#5	5'-0"	EQ	5	#5	5'-0"	EQ	
FS6.0	6'-0"	6'-0"	12"	6	<b>#</b> 5	5'-6"	EQ	6	#5	5'-6"	EQ	
FS7.0	7'-0"	7'-0"	14"	8	<b>#</b> 5	6'-6"	EQ	8	#5	6'-6"	EQ	
FS7.5	7'-6"	7'-6"	14"	8	#5	7'-0"	EQ	8	#5	7'-0"	EQ	

- CONCRETE FOOTING NOTES:

  1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO). TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
- IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
- 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C1) CONCRETE FOOTING SCHEDULE

		C	ONCRETE WALL	SCHEDULE		
MARK	THICKNESS					
WWW	HICKNESS	VERTICAL	HORIZONTAL	TOP AND BOTTOM	WALL TYPE	COMMENTS
CW-1	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	
CW-2	8"	#4 AT 18" O.C.	#4 AT 12" O.C.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	С	BELOW ELEV. 100'-0"
CW-3	12"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	С	
CW-4	12*	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(1) #4	A	ABV. ELEV. 100'-0"
	16"	#4 AT 18" O.C. E.F.	#4 AT 12" O.C. E.F.	(2) #4	С	BELOW ELEV. 100'-0"

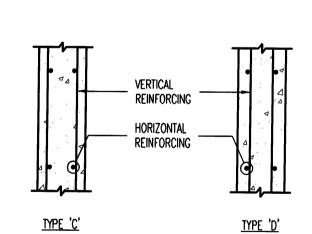
CONCRETE FOUNDATION WALL NOTES:

1. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 2. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

VERTICAL REINFORCING #4 BARS AT 18" O.C. #4 BARS AT 18" O.C. 4 BARS AT 12" O.C. 4 BARS AT 16" O.C. 5 BARS AT 15" O.C. #4 BARS AT 18" O.C. E.F. #4 BARS AT 16" O.C. E.F.

TYPE 'B'

WALL REINFORCING PLACEMENT TYPES: REINFORCING HORIZONTAL REINFORCING

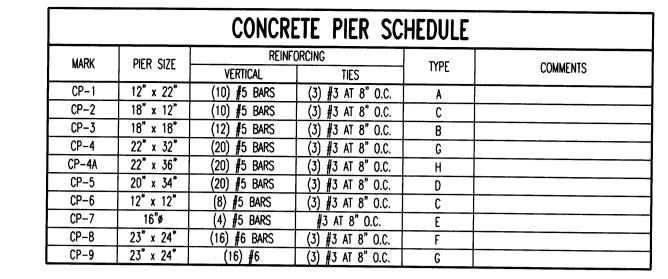


<u>ABBREVIATIONS:</u> E.F. EACH FACE

I.F. INSIDE FACE

O.F. OUTSIDE FACE

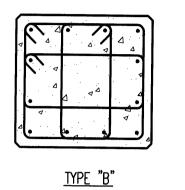
TYPE 'A'



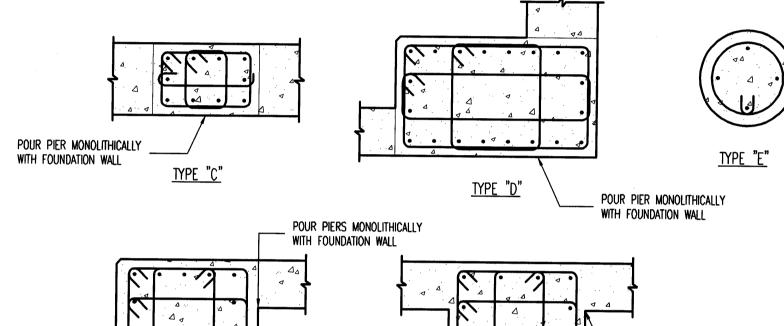
CONCRETE PIER NOTES:

1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO). 2. RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS

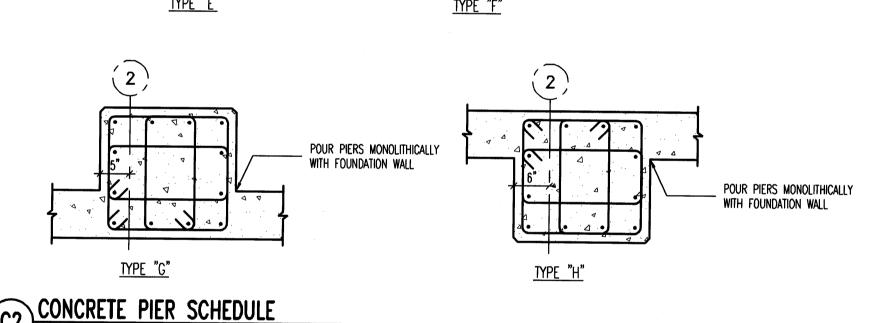
POURED MONOLITHICALLY WITH CONCRETE WALL. 3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



POUR PIERS MONOLITHICALLY WITH FOUNDATION WALL



POUR PIER MONOLITHICALLY WITH FOUNDATION WALL



		C	ONCR	ETE	REIN	FORC	ING	BAR	LAP	SPLI(	CE S	CHED	ULE				
		f'c =	3000psi		f'c = 4000psi					f'c =	5000psi	****	<u> </u>	f'c = 6000psi			
BAR SIZE	REG	ULAR	TO	OP	REG	ULAR	TO	OP	REG	ULAR	T	OP .	REG	ULAR		OP.	
DAIN SIZE	CLASS		CLASS		CL	ASS	CL	ASS	CL	ASS	CL	ASS	CL	ASS		ASS	
	Α	В	A	В	Α	В	Α	В	Α	В	Α	В	Α	В	Α	В	
<b>#</b> 3	13"	17"	17"	21*	12"	16"	16"	21"	12"	16"	16"	21"	12"	16"	16"	21"	
#4	17"	22"	22"	28*	15"	19"	19"	25"	13"	17"	17"	22*	12"	16"	16"	21"	
<b>#</b> 5	21"	27"	27"	35"	18"	24"	24"	31"	16"	21"	21"	27*	15"	19"	19"	25"	
#6	27"	36"	36"	46"	24*	31"	31"	40"	21"	28"	28"	36"	20"	25"	25*	33"	
<b>#</b> 7	37"	48"	48"	63"	32"	42"	42"	54"	29"	38"	38"	49"	27"	34"	34"	44'	
#8	49"	64"	64"	82*	42"	55"	55"	71"	38"	49"	49"	64"	35"	45"	45"	58"	
<b>#</b> 9	62"	80"	80"	104"	54"	70"	70"	90"	48"	62*	62"	81"	44"	57"	57"	74"	
<b>#</b> 10	78"	102"	102"	132"	68"	88"	88"	115"	61"	79"	79"	102"	56"	72"	72"	94"	
#11	96"	125"	125"	162"	83"	108"	108"	141"	76"	97"	97"	126"	68"	88"	88*	115	
-																<del>  ```</del>	

CONCRETE REINFORCING BAR LAP SPLICE NOTES:

1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH. CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.

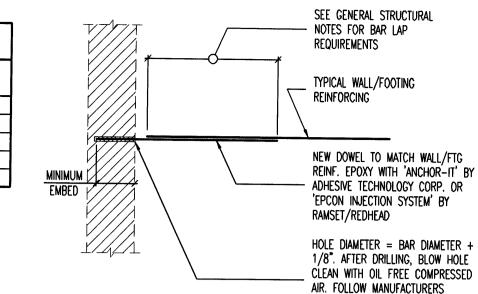
- 4. TIES AND STIRRUPS SHALL NOT BE SPLICED. SPLICES FOR BUNDLED BARS:
- a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2. FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.
- 6. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3. FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS, 8. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR. 9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE

ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

NO SCALE

EPOXY DOWEL EMBED SCHEDULE MINIMUM EMBEDMENT INTO EXISTING CONCRETE 7 1/2"



RECOMMENDATIONS FOR EPOXY

INSTALLATION

STEEL COLUMN SCHEDULE Steel base plate STEEL CAP PLATE HSS3x3x1/4 1/2" (SBP-1) SC-2 HSS3x3x1/4 1/2" (SCP-1) 1/2" (SBP-1)

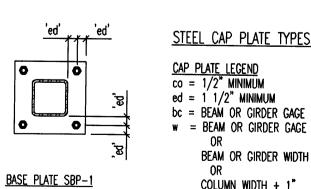
STEEL COLUMN NOTES:

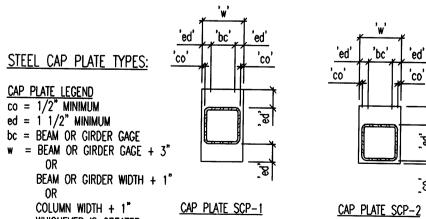
1. UNLESS NOTED OTHERWISE, ALL COLUMNS SHALL BE INSTALLED WITH (4) 3/4" ANCHOR BOLTS WITH 3" MINIMUM HOOKS.

PROJECT ANCHOR BOLTS 3" MINIMUM ABOVE THE TOP OF THE BASE PLATE. EMBEDMENT SHALL BE 9" MINIMUM. ALL BOLTS SHALL BE INSTALLED WITH HARDENED WASHERS BENEATH THE NUT. ANY BOLT HOLES LARGER THAN THE BOLT DIAMETER PLUS 5/16" SHALL HAVE 5/16" PLATE WASHERS INSTALLED BENEATH THE HARDENED WASHERS. ALL CAP PLATE BOLTS SHALL BE 3/4" A325N BOLTS, TYPICAL UNLESS NOTED OTHERWISE.

ANCHOR BOLTS SHALL NOT BE WELDED (INCLUDING TACK WELDS). 4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

STEEL BASE PLATE TYPES: BASE PLATE LEGEND co = 1/2" MINIMUM ed = 1 1/2" MINIMUM bc = 3 MINIMUM





SHEET TITLE

STEEL COLUMN SCHEDULE

WHICHEVER IS GREATER

CLIENT

CLEARFIELD MAINTENANCE

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER

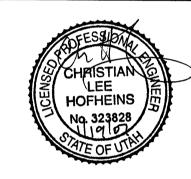
GROU

architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



PROFESSIONAL SEAL

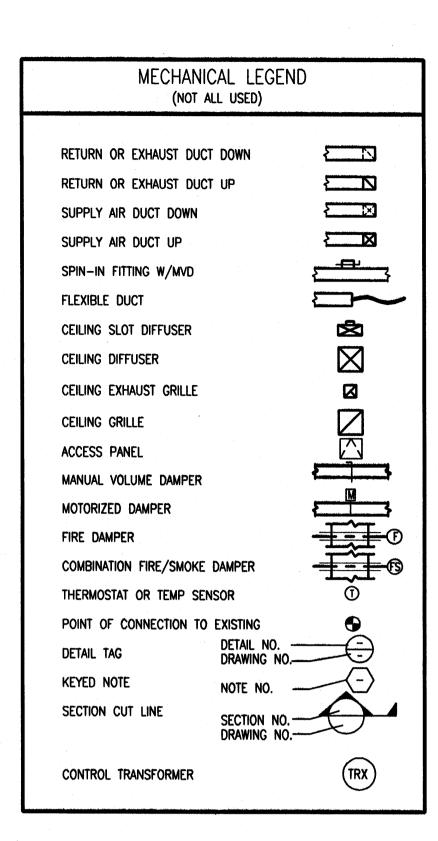


1/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 8/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK | DATE | DESCRIPTION

D: 067477
06034900
06162
C. BROWN
G. McKENZIE
AS SHOWN
DECEMBER 8, 2006

STRUCTURAL SCHEDULES

S601



- (1) COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- 2 ALL DUCTWORK SHALL RECEIVE 1" 1.5 LBS/CU.FT. DUCT LINER, ATTACH TO DUCT WITH MECHANICAL FASTENERS AND TRIM AND SEAL JOINTS. LOW PRESSURE ROUND FLEXIBLE DUCT TO BE 1-1" THICK INSULATED AND A MAXIMUM OF 6 FT. LONG. ALL INSULATION TO MEET NFPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
- (3) ALL DUCTWORK IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
- 4 DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- 5 THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- (6) THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.
- 7) THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS "B".
- 8 ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- ALL DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- (11) DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- (12) NOT USED
- (13) EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.
- HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.
- ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK.
- DIVISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANCIAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

	Δ	IR DEVI	CE SCH	IEDULE		GRILLE GRILLE CFM				
PLAN CODE	TYPE & Duty	neck Size	CEILING TYPE	N.C. LEVEL MAX	SP	MAX. CFM	DAMPER	COLOR	MANUFACTURER & MODEL NO.	REMARKS
1	4-WAY SUPPLY	6 <b>"</b> ø	SEE Plans	20	0.05	176	IN DUCT	WHITE	PRICE #SCDA	034
2	4-WAY Supply	8 <b>"</b> ø	SEE Plans	20	0.05	280	IN DUCT	WHITE	PRICE #SCDA	234
3	4-WAY Supply	10"ø	SEE Plans	21	0.05	436	IN DUCT	WHITE	PRICE #SCDA	234
4	return	12" X 12"	SEE Plans	15	0.06	630	OBD	WHITE	PRICE #80D	
5	TRANSFER GRILLE	12" X 12"	SEE PLANS	15	0.06	N.A.	N.A.	WHITE	PRICE #80D	

1 12" X 12" FACE MODULE 2 24" X 24" FACE MODULE 3 3 CONCENTRIC CONES 4 SET FOR HORIZONTAL DISCHARGE

:						EXH	AUST FAN SCH	IEDUL	E					
SYMBOL	NO. REQ'D	LOCATION	CFM	TOTAL SP	LB'S		ROOF OR WALL OPENING	HP	ø	MOTOR CYCLES	VOLTS	RPM		COMMENTS
EF-1	AS SHOWN	RESTROOM	120	0.15	22	1.7	8/10	50 Watts	1	60	120	1200	COOK #GC-240	456
EF-2	AS SHOWN	VEHICLE SVC BAY	13200	0.25"	645	18.4	61" SQ.	2.0	3	60	208	321	COOK #54XLP	003789

1 PROVIDE INSULATED HOUSING AROUND MOTOR 2 CONTROL WITH CARBON MONOXIDE DETECTOR THROUGH ON/AUTO SWITCH 3 INNER LOCK LOUVER MOTOR WITH FAN MOTOR 4 CEILING GRILLE 5 COOK WCA-2 WALL CAP AND DAMPER 6 CONTROL WITH MOTION DETECTOR 7 OUTLET LOUVER. SEE NOTE 10 ON DWG. M201 8 MOTORIZED DAMPER. INTERLOCK DAMPER WITH FAN MOTOR 9 SAFETY INLET SCREEN

		,		CON	DENSIN	IG U	NIT S	CHED	ULE	
CODE	MFR. & MODEL NO.	SEN. MBH	AMB. TEMP.	SEER	SUCTION TEMP.	FLA	МСА	мор	Voltage/ Phase	REMARKS
CU-1	TRANE #2TTB2042A100	31	95	13	45	18.8	23	40	208/1	00000000

- 1) PROVIDE WITH FUSED DISCONNECT 2 CONNECT TO EVAPORATOR COIL IN F-1 3 ANTI-SHORT CYCLE 4 NOT USED
- 5 PROGRAMMABLE THERMOSTAT 6 HIGH/LOW PRESSURE SWITCH 7 FACTORY INSTALLED ACCUMULATOR 8 NOMINAL 3.5 TON UNIT
- 9 CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER

FURNACE SCHEDULE														
SYMBOL	INPUT BTU	OUTPUT BTU ②	CFM	EXT S.P.	FAN SPEED						DRIVE	MANUFACTURER AND MODEL NO.	COMMENTS	
F-1	100,000	93,000	1400	0.5	1100 RPM	1	24"x25"x1"	3/4	60	1	115	DIRECT	TRANE #TUX100C960D	034678

1 AFUE - 93 2 AT ELEVATION 3 R-22 4 PROVIDE W/TXC050C4HPD EVAPORATOR 5 PROPANE GAS KIT 6 CONCENTRIC VENT KIT
7 CONDENSER, EVAPORATOR AND FURNACE BY SAME MANUFACTURER 8 NATURAL GAS

				- 400-1- A G 1-110-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1				****			
			,	GAS-FI	RED RAI	TAAIC	Н	EATERS	3		
004004	LOGATION	INPUT	WEIGHT	001/5/0		MOTOR			FLUE	MAKE AND MODEL NUMBER	COMMENTS
SYMBOL	LOCATION	BTU	WEIGHT	CONFIG	AMPS	VOLTS	ø	CYCLES	SIZE	MAKE AND MODEL NUMBER	COMMENTS
B-1	AS SHOWN	100,000	35	SEE PLANS	1.0 RUN	120	1	60	4*ø	ROBERTS GORDON CO-RAY-VAC #B-10	102346

1 ROBERS GORDON #EP-200 VACUUM PUMP, 3/4HP, 120 VOLT 2 PROVIDE FRESH AIR INTAKE 3 7-DAY PROGRAMMABLE THERMOSTAT
4 HEAT TREATED ALUMIZED STEEL TUBE AND POLISHED ALUMINUM REFLECTOR 5 PROPANE GAS 6 NATURAL GAS

CLIENT

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: B.W.

CHECKED BY: A.D.S.

SCALE:

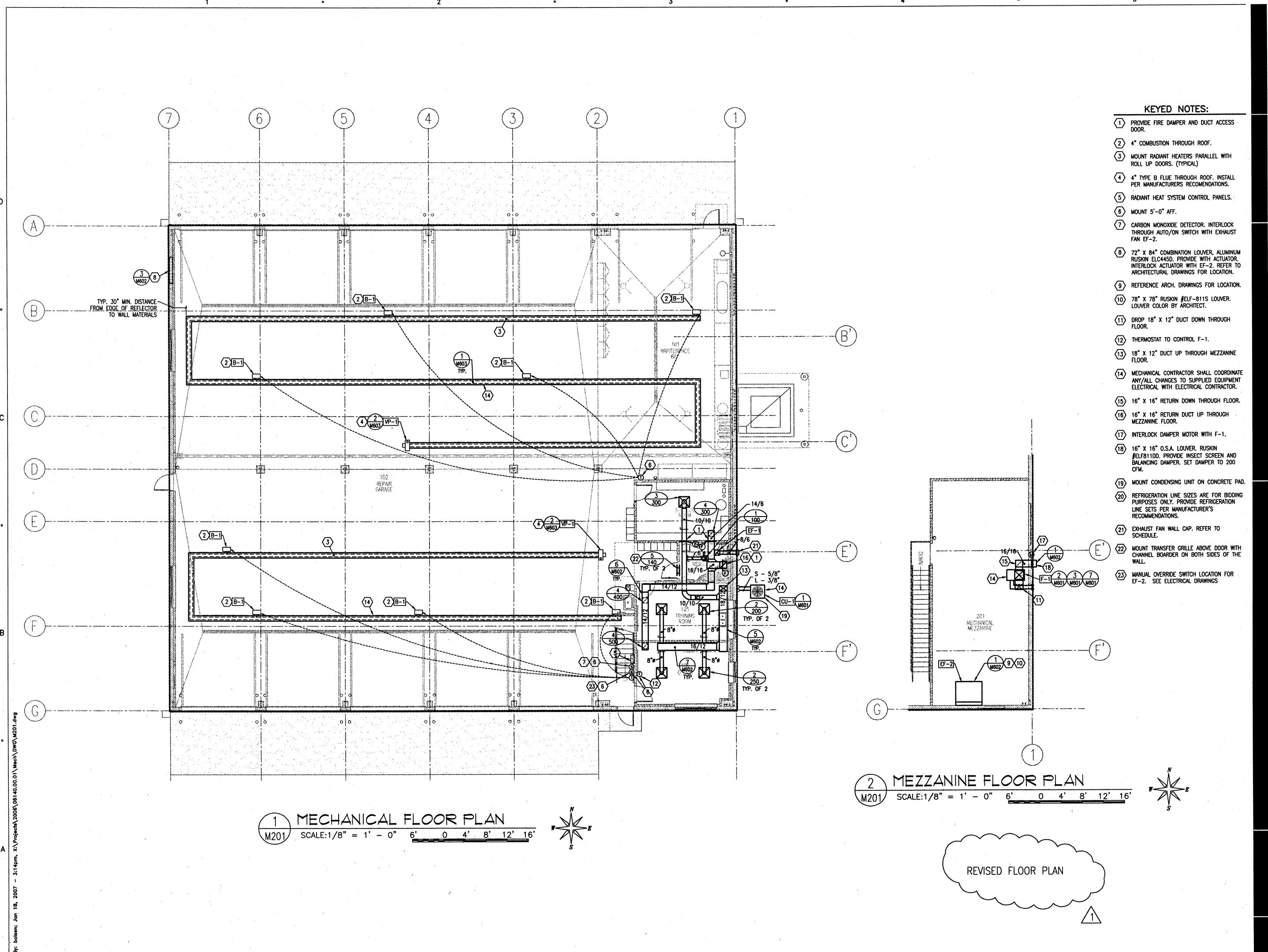
DATE: DECEMBER 8, 2006

SHEET TITLE

KEY PLAN

MECHANICAL SCHEDULE SHEET

M001



CLI

CLEARFIELD MAINTENANCE FACILITY

FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



ISSUE

1/15/07 DFCM REVIEW COMMENTS
12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: B.W.

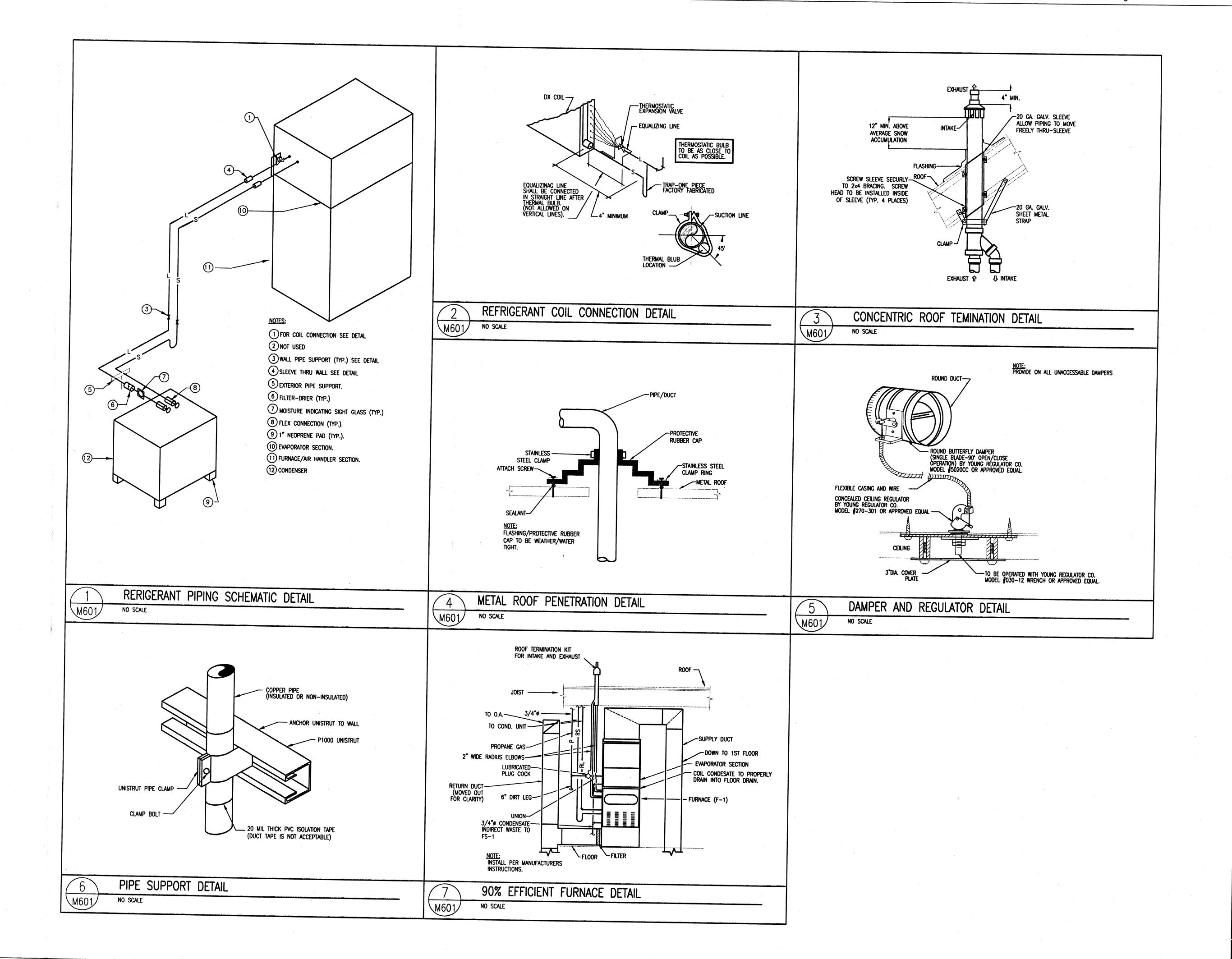
CHECKED BY: A.D.S.

SCALE:

DATE: DECEMBER 8, 2006

SHEET TITLE

MECHANICAL FLOOR PLAN



# CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

ISSUE

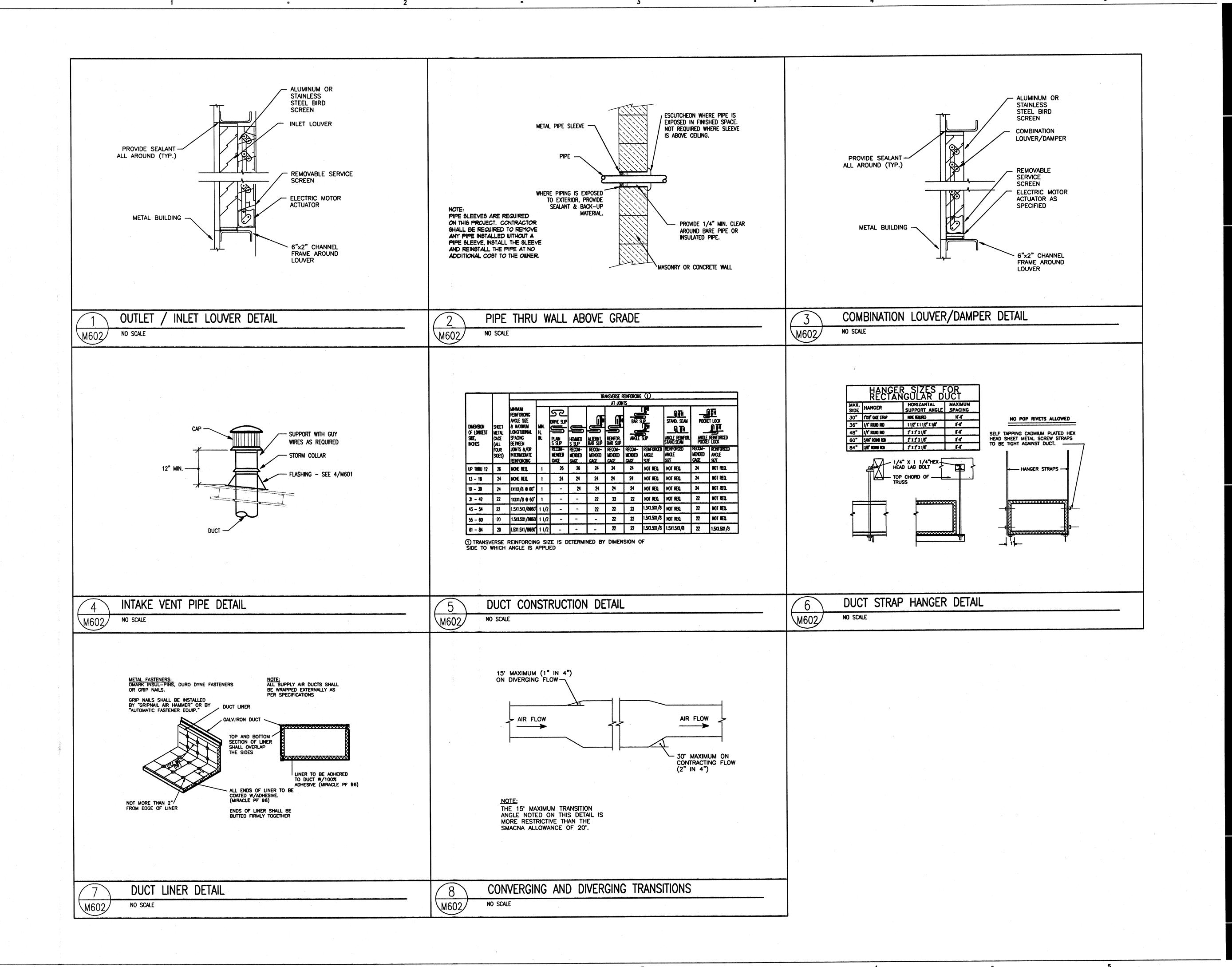


12/08/06	CONSTRUCTION DOCUMENTS
08/28/06	95% DESIGN SUBMITTAL
07/17/06	60% DESIGN SUBMITTAL
 DATE	DESCRIPTION

KEY PLAN		
DATE:	DECEMBER	8, 2006
SCALE:		
CHECKED BY:		A.D.S.
DRAWN BY:		B,W,
ARCHIPLEX PROJECT	NO:	0609,01
DFCM PROJECT NO:		06034900
DFCM CONTRACT NO		067477

SHEET TITLE

MECHANICAL DETAIL SHEET



CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture - planning - design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

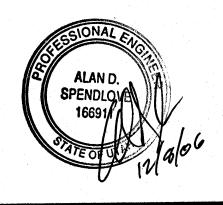
CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

ISSUE

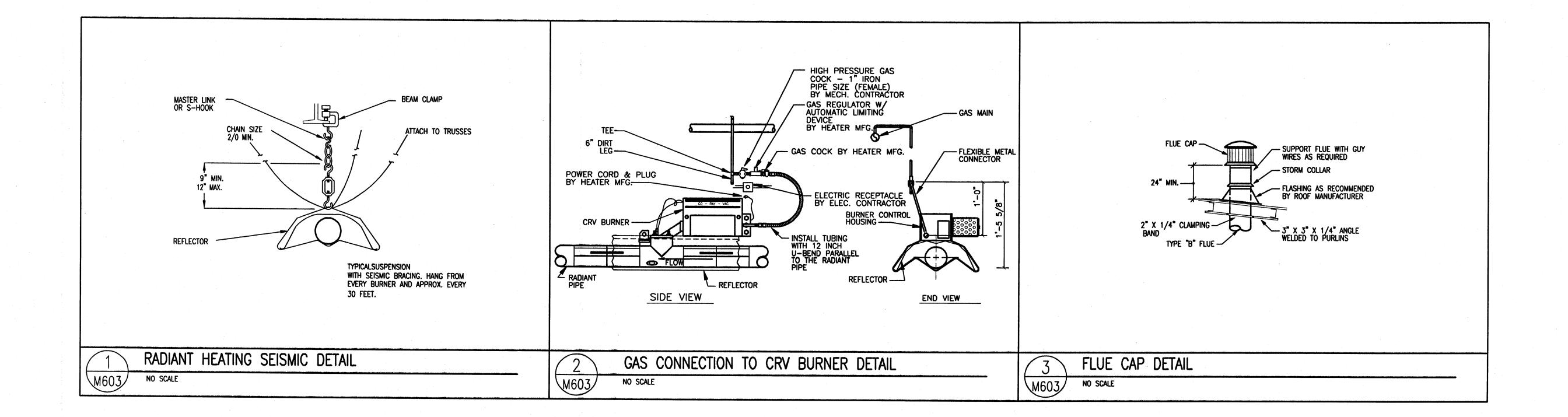


					4.27	•
			1 1 2			
					***************************************	
	12/08/06	CONSTR	UCTION	DOCUM	ENTS	
	08/28/06	95% DE	ESIGN S	UBMITTA	L	
	07/17/06	60% DE	SIGN S	UBMITTA	4	
MARK	DATE	DESCRI	PTION			
DFCM	CONTRACT	NO:		0	67477	,
DFCM	PROJECT I	<b>NO:</b>		060	34900	
ARCHI	PLEX PROJ	ECT NO:		0	609.01	
DRAWI	N BY:				B,W.	
CHECK	KED BY:				A.D.Ş.	Ĺ
SCALE						
DATE:			DECEN	MBER 8,	2006	

SHEET TITLE

KEY PLAN

MECHANICAL DETAIL SHEET



CLEARFIELD MAINTENANCE FACILITY

FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



ISSUE

12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: B,W,

CHECKED BY: A,D,S,

SCALE:

DATE: DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

MECHANICAL DETAIL SHEET

P	IPING LEGEND (NOT ALL USED)
GATE VALVE —— 🖂	- CHILLED WATER SUPPLY CHS
OS & Y PATTERN GATE VALVE	CHILLED WATER RETURN —— CHR ——
BALL VALVE	CONDENSER WATER SUPPLY — CWS ——
BUTTERFLY VALVE ———————	CONDENSER WATER RETURN —— CWR ——
MOTORIZED BUTTERFLY VALVE	- HEATING WATER SUPPLY HWS
HEAT TRACING	HEATING WATER RETURN
DEIONIZED WATER —— DI ——	WATER TREATMENT ——WT——
CHECK VALVE	FIRE DEPT. HORN & LIGHT
SOLENOID VALVE	HOT GAS
AUTOMATIC CONTROL VALVE (2-WAY)	FLEXIBLE PIPE CONNECTION
AUTOMATIC CONTROL VALVE (3-WAY)	REDUCED PRESSURE BACKFLOW PREVENTER RPBP
PRESSURE REDUCING VALVE	DIRECTION OF FLOW
P & T RELIEF VALVE	ELBOW DOWN (DN)
AIR VENT (AUTOMATIC)	ELBOW UP
REFRIGERANT LIQUID —— RL——	PIPE CAP
REFRIGERANT SUCTION —— RS ——	TEE DOWN
THERMAL EXPANSION VALVE	UNION
STRAINER - 1_1	DOMESTIC COLD WATER
CIRCUIT SETTER -V	DOMESTIC HOT WATER
FLOW METER	HOT WATER CIRC.
PET COCK OR GAUGE COCK	TEMPERED WATERT
ດ່	SANITARY (PLBG) VENT
PRESSURE GAUGE W/GAUGE COCK	SANITARY SEWER ABOVE GRADE
THERMOMETER	SANITARY SEWER BELOW GRADE
TEMPERATURE & PRESSURE TEST PLUG	DRAIN D
IN-LINE PUMP	ROOF DRAIN PIPING
FLOW SWITCH [F]	OVERFLOW DRAIN PIPING OD
AQUASTAT	STORM DRAIN PIPING ABOVE GRADE SD
HOSE BIBB OR SILLCOCK	STORM DRAIN PIPING BELOW GRADE SD
VACUUM V	FIRE SERVICE F
FLOOR DRAIN	NATURAL GAS G
FLOOR SINK	COMPRESSED AIR —— CA
HOT GAS BYPASS — HGBP -	VENT THROUGH ROOF
WALL CLEANOUT OR CLEANOUT	STEAM S
FLOOR OR GRADE CLEANOUT	CONDENSATE — C —
GRADE CLEANOUT W/ CONCRETE PAD —	

GENERAL NOTES:

(1) COORDINATE ALL AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.

THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.

THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH SITE CONDITIONS.

ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.

THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.

7 NOT USED

ALL DOMESTIC COLD AND DOMESTIC HEATING WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE CAST IRON. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE CAST IRON.

9 PROVIDE INSULATION FOR THE FOLLOWING: a. DOMESTIC HOT WATER PIPING: 1" THICK FOR ALL PIPE SIZES.

b. DOMESTIC COLD WATER PIPING:

½" THICK FOR PIPE SIZES ½" TO 6".

(PROVIDE CONTINUOUS VAPOR BARRIER.)

10 INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.

(1) EACH TRADE IS RESPONSIBLE THEIR OWN FIRE CAULKING.

HOUSEKEEPING PADS FOR ALL EQUIPMENT IS PROVIDED AND INSTALLED BY GENERAL CONTRACTOR. COORDINATE LOCATION WITH MECHANICAL CONTRACTOR.

DMISION 15 TO SUBMIT TO ENGINEER ALL AS-BUILTS OF BUILDINGS MECHANCIAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.

DI AL			CC	NNECTION SIZ	Œ		COMMENTS	
PLAN CODE	DESCRIPTION	C.W.	H.W.	WASTE	VENT	TRAP	COMMENTS	
WC-1	WATER CLOSET	1/2"		4"	2"	INT.	FLOOR MOUNTED TANK TYPE, CRANE — HYMONT #31055, 18 INCH RIM HEIGHT, MAXIMUM WATER USAGE OF 1.6 GALLON'S PER FLUSH. TANK TO HAVE PRESSURE ASSISTED FLUSH. SEA — PROVIDE SPLIT FRONT TYPE WITH CHECK HINGE, BEMIS #1955C PROVIDE CHROME PLATED SUPPLY AND STOP	
L-1	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"	1-1/2"	WALL MOUNTED, CRANE #1412V, HANDICAP TYPE, VITREOUS CHINA, SELF SUPPORTING FIXTURE SIZE 24"X21". FAUCET AND DRAIN - SYMMONS S-6080 WITH DRAIN GRID, BATTERY OPERATE WITH BATTERY INSIDE BODY OF FAUCET. PROVIDE CHROME PLATED SUPPLIES AND STOPS.  DEARBORN, 17 GA TUBE "P" TRAP, CHROME PLATED. FITTINGS AND TRAP TO BE INSULATED TO MEET ADA REQUIREMENTS PROVIDE MCGUIRES PROWRAP. PROVIDE WITH CARRIER.	
							ELKAY ESSW 2520-C, WALL MOUNTED 304 14 GAUGE STAINLESS STEEL SERVICE SINK WITH	
S-1	utility sink	1/2"	1/2"	3"	1-1/2"	3"	HOSE THREAD, VACUUM BREAKER, WALL BRACKET AND PAIL HOOK SPOUT AND EKT/3 CAST II P-TRAP.	
U-1	URINAL	3/4"	_	2*	1-1/2"	INT.	WALL MOUNTED URINAL CRANE #7197, 1.0 GPF. VITEROUS CHINA, MOUNT 17" A.F.F. TO MEE ADA REQUIREMENTS. PROVIDE WITH SLOAN #8186 G2 OPTIMA PLUS BATTERY OPERATED FLUSHMETER, FLUSHMETER TO HAVE MANUAL OVERRIDE (URINAL SHALL FIT SPACE AVAILABLE.) PROVIDE CARRIER.	
HB-1	HOSE BIBB	3/4"		_	_		SINGLE SPOUT WITH HOSE CONNECTION. PROVIDE WITH VACUUM BREAKER AND METAL HANDLE (PLASTIC HANDLES ARE NOT ACCEPTABLE). CHICAGO MODEL NO. 293 WITH E27 VACUUM BREAKER	
WH-1	WALL HYDRANT	3/4"	:		_	_	WADE W8600,175, NON-FREEZE WALL HYDRANT WITH NICKEL BRONZE BOX, COMPLETE WITH CHROME PLATED LOCKING COVER AND BOX WITH INTEGRAL VACUUM BREAKER. WALL HYDRANT BE SIZED FOR WALL THICKNESS.	
FD-1	Floor Drain	-	-	3"	1-1/2"	2**	FLOOR DRAIN J.R. SMITH #2005-A. WITH NICKEL BRONZE STRAINER, TRAP PRIMER CONNECTION AND DEEP SEAL TRAP.	
FD-2	FLOOR DRAIN	-	_	4"	2*	4"	SMITH #2340 NB, FLOOR DRAIN WITH SEDIMENT BUCKET, DEEP SEAL P-TRAP, AND NICKEL BRONZE TOP.	
ES-1	EMERGENCY EYEWASH & SHOWER	1-1/4"		-	-		BRADLEY S19-310SBFW, FLOOR MOUNTED SAFETY STATION COMBINATION EYEWASH AND EMERGENCY SHOWER. ALUMINUM FLOOR FLANGE AND GALVANIZED INTERMEDIATE PIPE A FITTINGS, TWO SOFT STREAM OUTLET HEADS, STAINLESS STEEL BOWL AND STAY OPEN VALVE ON EYEWASH, ORANGE CYCOLAC PLASTIC SHOWER HEAD WITH STAY OPEN VALVE	
							(OPERATED BY PULL ROD AND HANDLE), 1-1/4" IPS FEMALE INLET AND OUTLET.	
S-2	DOUBLE COMPARTMENT SINK	1/2"	1/2*	2*	1-1/2*	2"	JUST #DL-ADA-2233-A-GR, STAINLESS STEEL DOUBLE COMPARTMENT, SELF RIMMING, SIZE 22"X33" OD WITH TWO COMPARTMENTS THAT ARE 16"X14"X8" DEEP, MATERIAL - 18 GAUGE TYPE 304 STAINLESS STEEL, SEAMLESS DIE DRAWN. INTERIOR SURFACES POLISHED TO A NON-POROUS FINISH. UNDERSIDE TO BE FULLY COATED INSULATED FOR SOUND AND	
							CONDENSATION REDUCTION, FAUCET AND DRAIN — GOOSENECK WITH SPRAY, JUST JWF 201 TEAR DROP HANDLES AND JB-99 DRAIN OR APPROVED EQUAL. PROVIDE WITH CHROME PLAT SUPPLY AND STOPS. DEARBORN 17 GA TUBE "P" TRAP, CHROME PLATED.	
FS-1	FLOOR SINK	-	_	2*	1-1/2"	2*	FLOOR SINK J.R. SMITH #3020. COMPLETE WITH ACID RESISTANT COATED INTERIOR AND POLISHED ALUMINUM DOME BOTTOM STRAINER	
TP-1	TRAP PRIMER	1/2"	_	_	_	_	TRAP PRIMER MIFAB #500 COMPLETE WITH MIFAB MI-GAP AIR GAP FITTING AND STAINLESS STEEL ACCESS DOOR.	
DF-1	DRINKING FOUNTAIN	1/2"	_	2*	1-1/2*	2"	ADA COMPLIANT WATER COOLER, 12 GPH, SEMI-RECKSSEL, 115 VOLTS, 400 WATTS, 4.8 AM ELKAY #ESRWC-13.	
TD-1	TRENCH DRAIN	-	_	3"	2*	3"	TRENCH DRAIN J.R. SMITH #9931, COMPLETE WITH HEAVY DUTY FRAME, LOAD CLASS C STAINLESS STEEL SLOTTED GRATE, FULLY SLOPED CHANNELS.	
TMV-1	TEMPERATURE	1/2"	1/2"	-	-	_	EMERGENCY FIXTURE THERMOSTATIC MIXING VALVE. BRADLEY #\$19-2100 COMPLETE WITH CHROME PLATED FINISH, STAINLESS STEEL SURFACE MOUNTED BOX, INTEGRAL STRAINER STOPS ON INLET BUILT IN COLD WATER BYPASS, HOT WATER SHUT OFF WHEN COLD SULOST, OUTLET TEMPERATURE GAUGE. 25 GPM • 15 PSI PRESSURE DROP. SET TEMPERATURE	

PUMP SCHEDULE P-											
		FEET DUMP &			MOTOR			TOR	MANUFACTURER		
PLAN CODE	AN DUTY CPM OF PUMP 17	% EFF. MIN.					& MODEL NO.	COMMENTS			
P-1	DOMESTIC WATER BOOSTER	55	50	3450	92	_	-	1-1/2	208/3	STA-RITE #HMSF-IFL	0

1) AUTOMATIC PRESSURE SWITCH. TURN ON AT 30 PSI, TURN OFF AT 50 PSI.

		GAS FIR	ED WATE	r heate	R SCH	EDULE		· ·		
SYMBOL	MFR. CATALOG NO.	SERVICE	CAPACITY GALLONS	FUEL GAS	INPUT BTU	RECOV GPH	TANK SIZE	TEMP F IN/OUT	FLUE SIZE	REMARKS
WH-1	AMERICAN WATER HEATER #PBG102-34S100-2NV	HOT WATER	34	NATURAL	100,000	126	22"	40″/140″	2*	0034

PROVIDE WITH EXPANSION TANK, A.C. SMITT-A

 INSTALL PER MANUFACTURERS REQUIREMENTS

			AIR COM	MPRESSOR .	AC-	
DI ANI	DIAN ACFM		RECEIVER	ELECTI	RICAL	MANUFACTURER
CODE	NITV I	CAP. (GAL)	VOLT/PH	HP	& MODEL NO	
AC-1	SHOP AIR	24	80V	208/3	7.5	SPEEDAIRE WW GRAINGER #5F565

\* START/STOP, WITH PROVISION FOR NO LOAD START. INCLUDE MAGNETIC STARTER

		CIR	CULA	TION	PUM	P SCHE	OULE CP-	
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM		OTOR VOLTAGE	MANUFACTURER & MODEL NO.	COMMENTS
CP-1	DOMESTIC HOT WATER RECIRCULATION	1	4	3250	1/40	115	TACO #003PNP	SEE HOT WATER HEATER DETAIL FOR INSTALLATION REQ.

CLIENT

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424

2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO: 067477

DFCM PROJECT NO: 06034900

ARCHIPLEX PROJECT NO: 0609.01

DRAWN BY: B.W.

CHECKED BY: A.D.S.

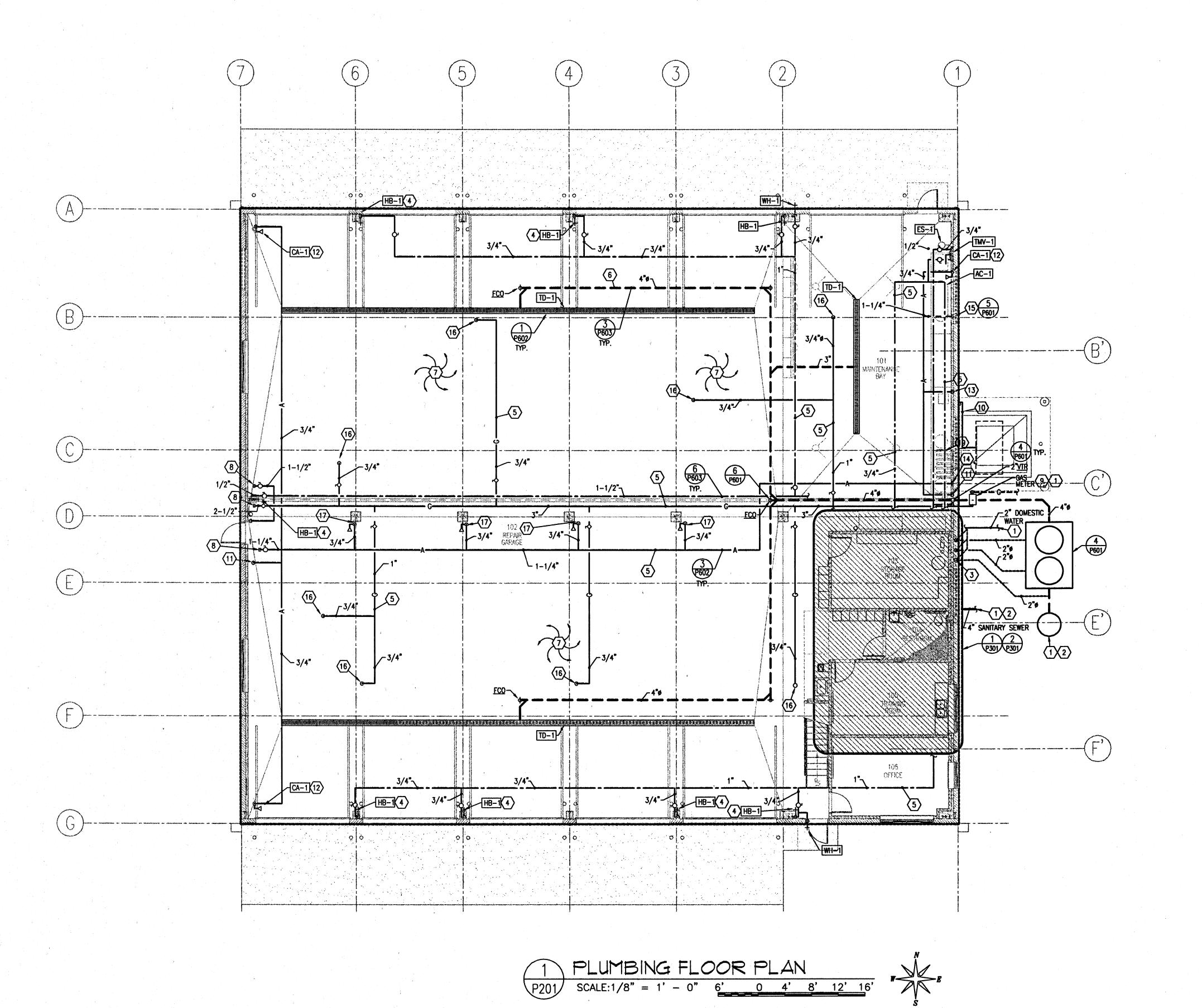
SCALE:

DATE: DECEMBER 8, 2006

SHEET TITLE

KEY PLAN

PLUMBING SCHEDULE SHEET



1) SEE SITE DRAWINGS FOR CONTINUATION.

2 SEE CIVIL DRAWINGS FOR INVERT ELEVATION. GENERAL CONTRACTOR IS TO COORDINATE WITH HIS SUBS TO VERIFY SITE SANITARY SEWER AND BUILDING SANITARY SEWER PIPE WILL PROPERLY CONNECT PRIOR TO INSTALLING ANY SANITARY PIPE IN THE SITE OR BUILDING. IF A PROBLEM EXISTS, THE CONTRACTOR IS TO INFORM THE ARCHITECT OF THE PROBLEM PRIOR TO INSTALLING ANY PIPE. IF PIPE IS INSTALLED AND A PROBLEM ARISES, THE CONTRACTOR, AT HIS EXPENSE, SHALL PERFORM ANY WORK REQUIRED SUCH THAT THE SANITARY PIPE CAN BE INSTALLED CORRECTLY TO CODE STANDARDS.

- 3 VENTS FROM SAND/OIL SEPARATOR MAY BE COMBINED AFTER THEY ARE 10' ABOVE FLOOD RIM OF SEPARATOR AND THEN CONNECTED TO VEHICLE STORAGE BAY WASTE SYSTEM VENT
- PROVIDE PVC COVER OVER INSULATION TO 8'-0" AFF. MOUNT HB-1 3'-0" AFF.
- 5 ROUTE PIPING ABOVE STRUCTURE.
- 6 ALL WASTE PIPING 3" AND GREATER TO SLOPE 1/8" PER FOOT.
- 7) PIPE SLEEVES REQUIRED ON THIS PROJECT. IF CONTRACTOR FAILS TO INSTALL PIPE SLEEVES, THE CONTRACTOR SHALL REMOVE PIPE, INSTALL SLEEVE AND REINSTALL PIPE AT NO ADDITIONAL EXPENSE TO THE OWNER.
- $\overline{8}$  cap line for future expansion.
- 9 1140 CF/HR OF 2 PSI NATURAL GAS WITH A SG. 0.60 AND A HEAT CONTENT OF 880 BTU/CF. PROVIDE APPLIANCE REGULATOR AT EACH APPLIANCE TO REDUCE GAS PRESSURE FROM 2 PSI TO 4 OZ.
- (10) CONNECT OIL DRAIN LINE TO DRAIN PUMP. RUN DRAIN LINE OUT TO CATCH TANK. PROVIDE SHUT-OFF VALVE AND UNION. CATCH TANK FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. DRAIN PUMP BY CONTRACTOR. VERIFY LOCATION.
- CONNECT 1" COMPRESSED AIR LINE AND 34" CW LINE TO OVERHEAD HOSE REEL. PROVIDE SHUT-OFF AND UNION. HOSE REEL BY CONTRACTOR.
- (12) ¾" COMPRESSED AIR DROP DOWN TO QUICK DISCONNECT. PROVIDE SHUT-OFF VALVE. VERIFY MOUNTING HEIGHT WITH OWNER. REFER TO DETAIL 5/P601.
- DROP 3/4" COMPRESSED AIR DOWN TO OIL DRAIN PUMP. PROVIDE SHUT-OFF VALVE.
- (14) DROP 1" COMPRESSED AIR LINE TO LUBE BARRELS. PROVIDE SHUT-OFF VALVE. LUBE BARRELS BY OWNER, INSTALLED BY CONTRACTOR.
- AIR COMPRESSOR BY CONTRACTOR. CONNECT 1-1/4" COMPRESSED AIR LINE TO COMPRESSOR. PROVIDE SHUT-OFF VALVE AND UNION.
- GAS LINE DOWN TO BURNER. PROVIDE SHUT-OFF VALVE, UNION AND APPLIANCE REGULATOR REFERENCE DETAIL 2/M603.
- DROP AIR LINE DOWN COLUMN FACE AND TERMINATE WITH QUICK COUPLER 3'-0" A.F.F.
- 18 NOT USED.
- 7 EACH TOTAL HOSE REELS FOR OIL, GREASE AND LUBRICATION.

REVISED FLOOR PLAN

MAINTENANCE **FACILITY** STATION #1424 2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

CLEARFIELD

DESIGNER

CLIENT



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

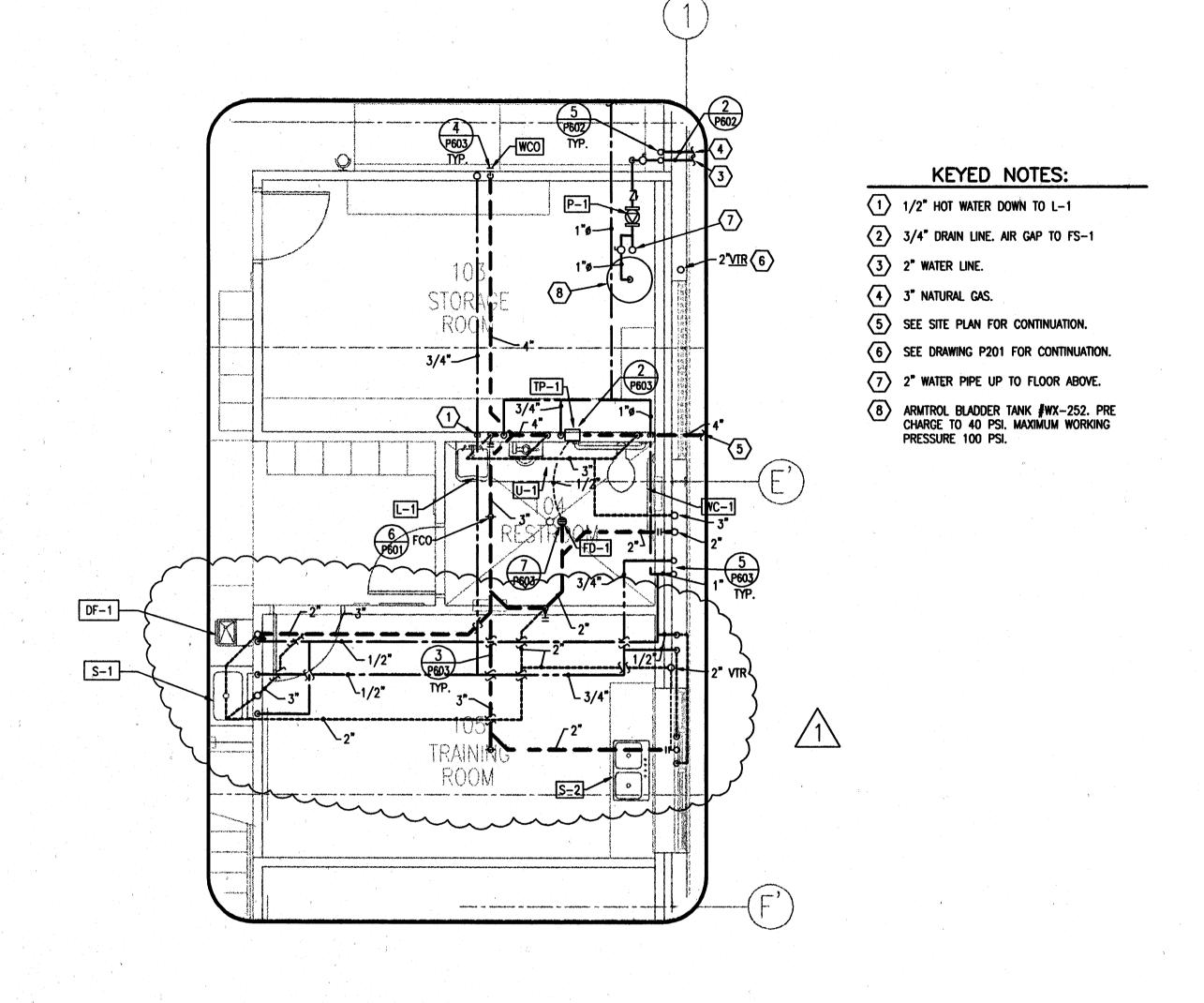


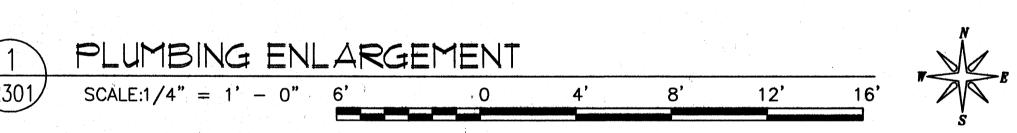
ISSUE 1/15/07 DFCM REVIEW COMMENTS 12/08/06 CONSTRUCTION DOCUMENTS 08/28/06 95% DESIGN SUBMITTAL 07/17/06 60% DESIGN SUBMITTAL MARK DATE DESCRIPTION

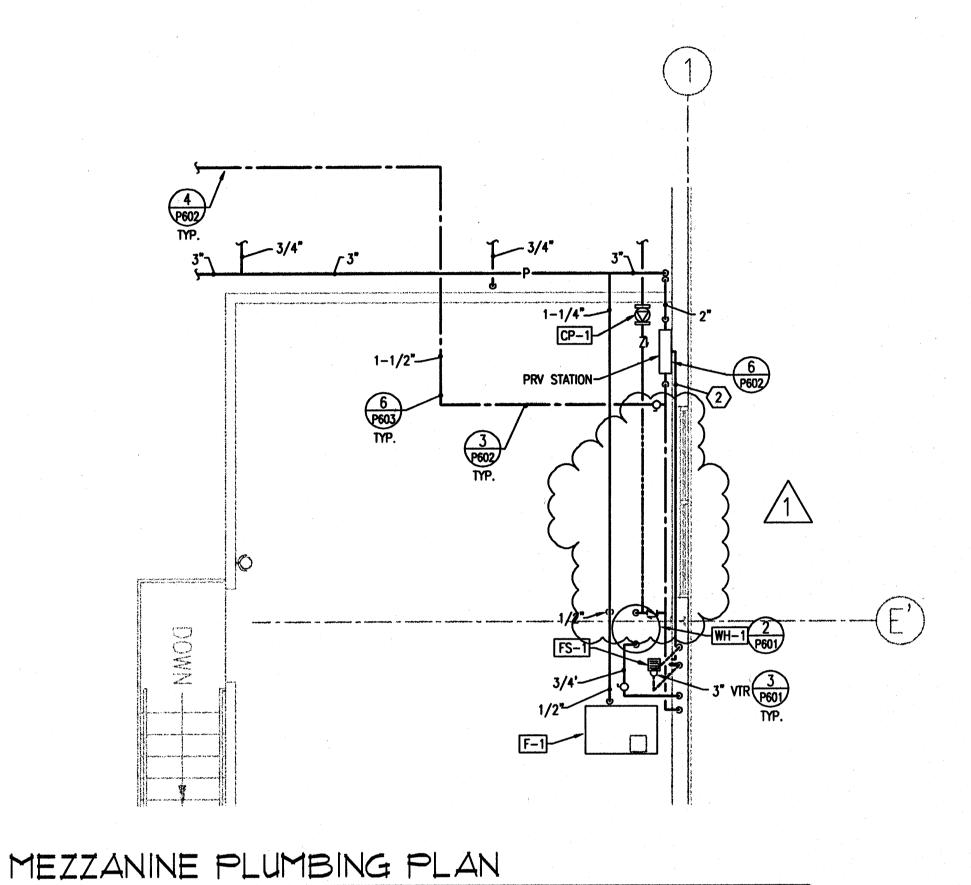
DECM CONTRACT NO: 067477 06034900 DFCM PROJECT NO: 0609.01 ARCHIPLEX PROJECT NO: DRAWN BY: B.W. CHECKED BY: A.D.S. SCALE: DECEMBER 8, 2006 KEY PLAN

SHEET TITLE

**PLUMBING** FLOOR PLAN







REVISED FLOOR PLAN

CLIENT

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



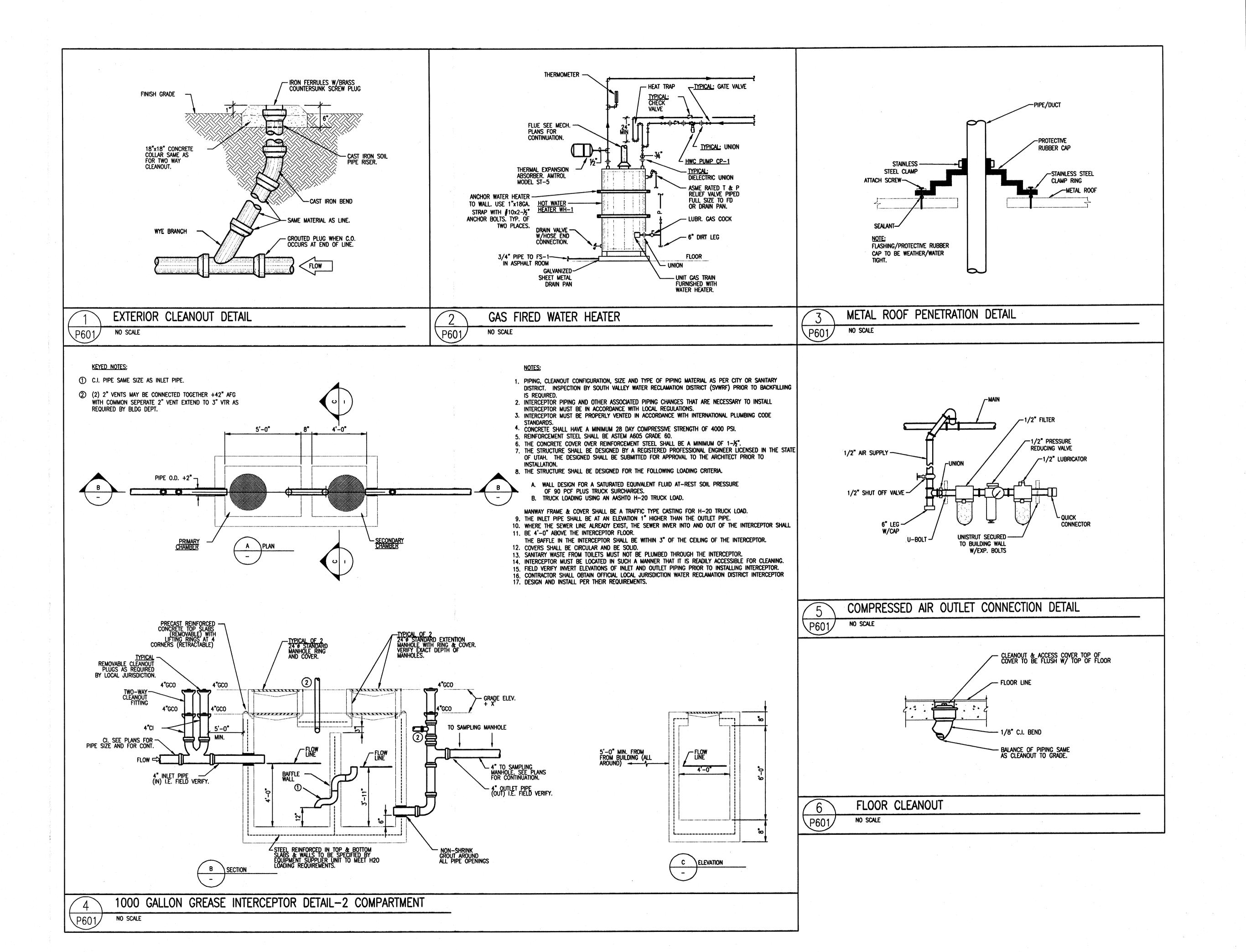
ISSUE

1/15/07 DFCM REVIEW COMMENTS
12/08/06 CONSTRUCTION DOCUMENTS
08/28/06 95% DESIGN SUBMITTAL
07/17/06 60% DESIGN SUBMITTAL
MARK DATE DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	B.W.
CHECKED BY:	A.D.S.
SCALE:	
DATE: DE	CEMBER 8, 2006
KEY PLAN	

SHEET TITLE

PLUMBING ENLARGEMENTS



# CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070

F:(801) 961-7373

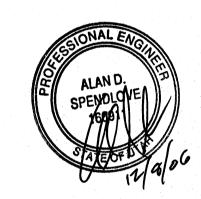
CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

ISSUE



	12/08/06	CONSTRUCTIO	N DOCUMENTS
	08/28/06	95% DESIGN	SUBMITTAL
	07/17/06	60% DESIGN	SUBMITTAL
MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	NO:	067477
DFCM	PROJECT N	٧0:	06034900
ARCHI	PLEX PROJ	ECT NO:	0609.01
DRAW	N BY:		B.W.

DRAWN BY:

CHECKED BY:

SCALE:

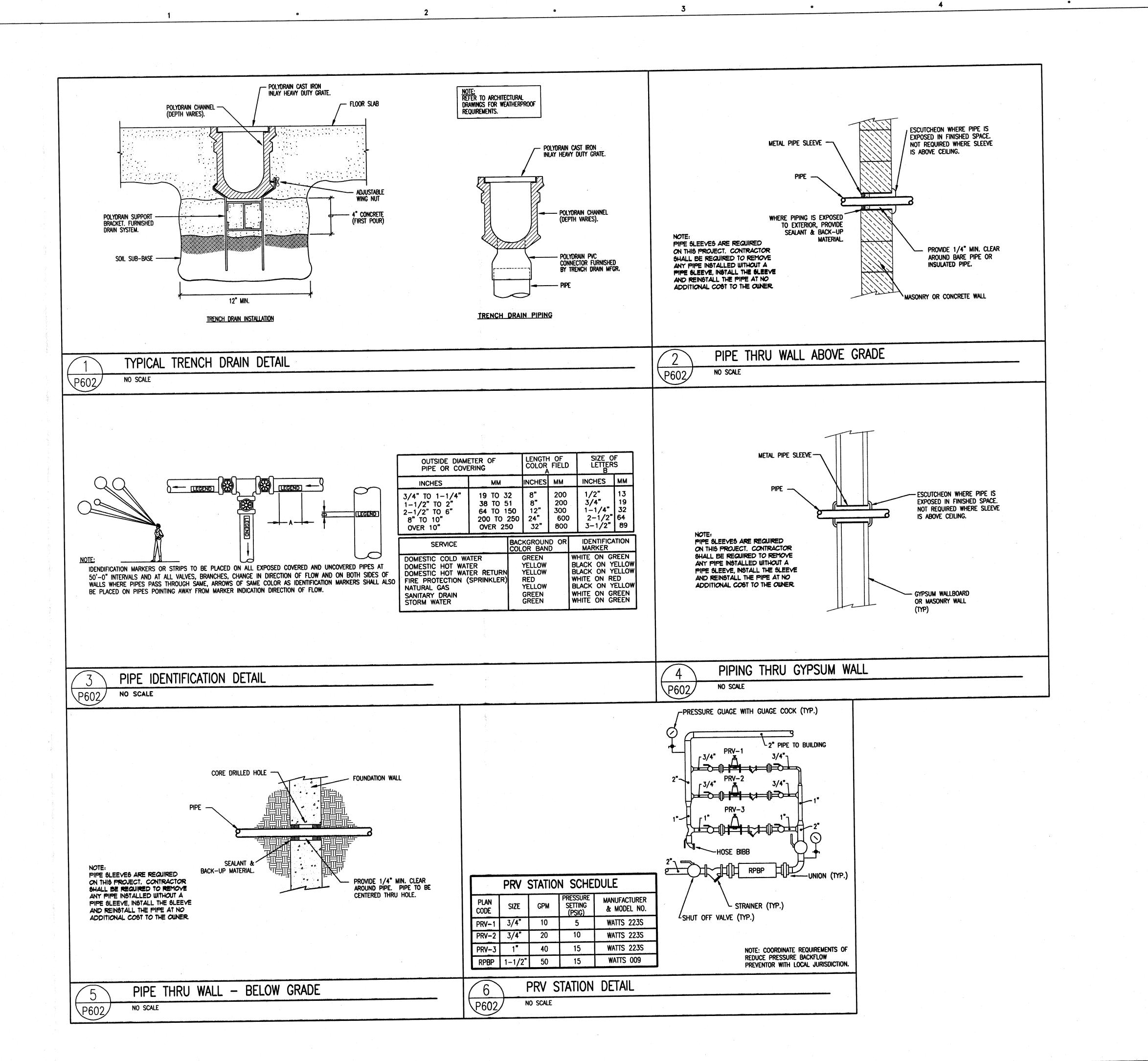
DATE:

DECEMBER 8, 2006

KEY PLAN

SHEET TITLE

PLUMBING DETAIL SHEET



# CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



	12/08/06	CONSTRUCTION DOCUMENTS
SUE		

08/28/06 95% DESIGN SUBMITTAL

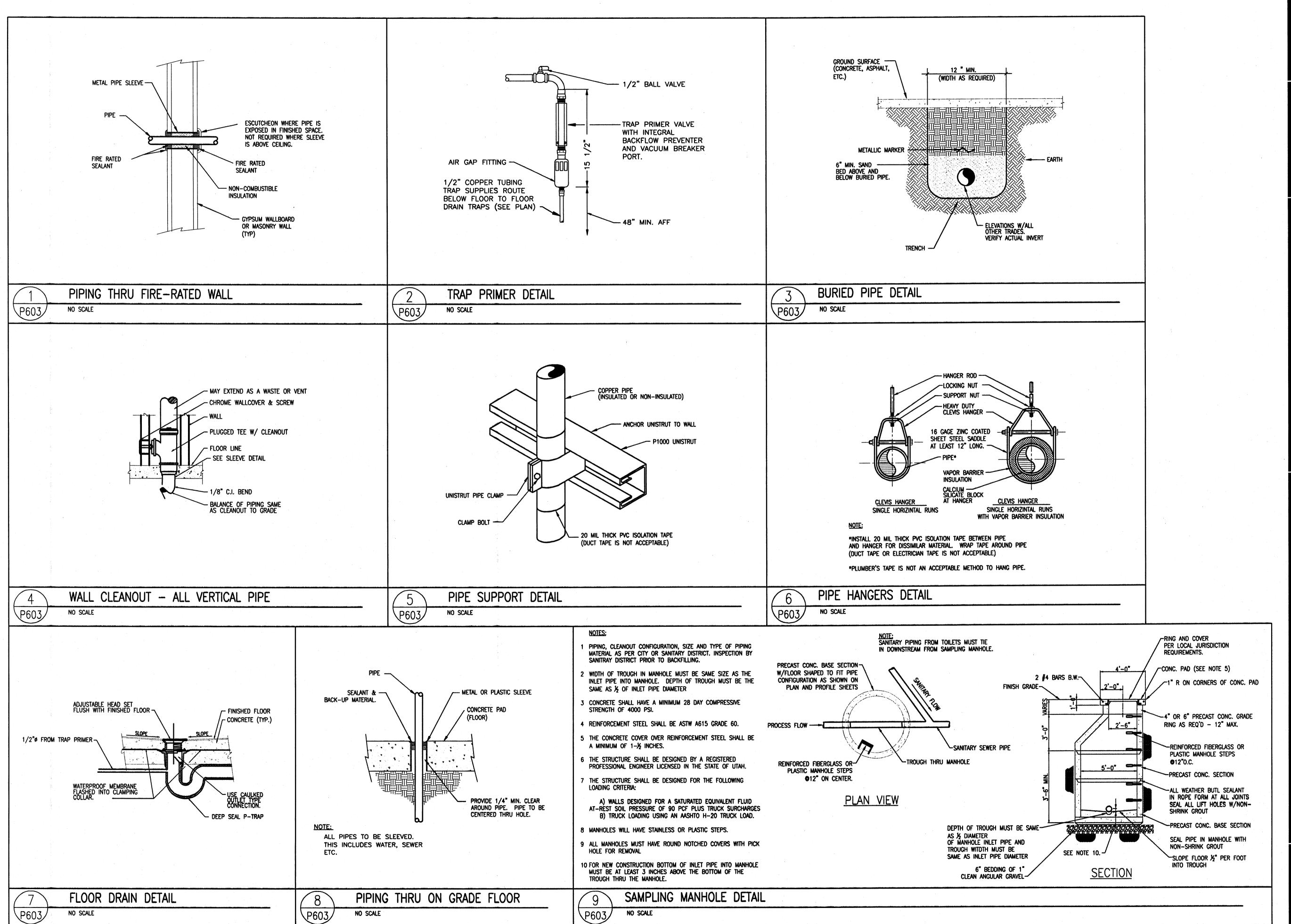
07/17/06 60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

DECM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT	NO: 0609.01
DRAWN BY:	B.W,
CHECKED BY:	A.D.S.
SCALE:	
DATE:	DECEMBER 8, 2006
KEY PLAN	

SHEET TITLE

PLUMBING DETAIL SHEET



2

CLIENT

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



ISSUE			
-			
***************************************			
	12/08/06	CONSTRUCTIO	N DOCUMENTS
	08/28/06	95% DESIGN	SUBMITTAL
	07/17/06	60% DESIGN	SUBMITTAL
MARK	DATE	DESCRIPTION	

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	B,W.
CHECKED BY:	A.D.S.
SCALE:	
DATE: DECEI	MBER 8, 2006

KEY PLAN

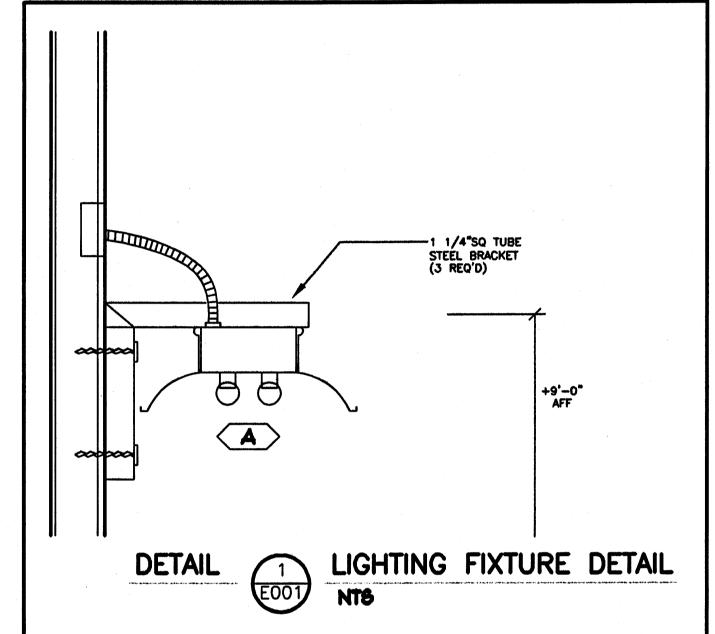
SHEET TITLE

PLUMBING DETAIL SHEET

#### GENERAL NOTES

- DO NOT SCALE DRAWNISS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING ANY ROUGH-INS,
- Final connections to equipment shall be made as per manifacturers written notrections and approved wring diagrams and details. It shall be the contractors responsibility to provide all materials and equipment compatible with equipment actually supplied,
- CONSULT ARCHITECTS REPLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC. ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES IPRIOR TO DUCT, IPING AND CEILING INSTALLATIONS.
- . ALL EMPTY RACEURY SYSTEMS SHALL HAVE A 200LB RATED PULL COMD INSTALLED AND SHALL BE IDENTIFIED AT EACH JINCTION, PULL AND TERMINATION POINT, USING PERMANENT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- ALL PENETRATIONS OF PIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF ASSEMBLY.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR,
- . It is the intent of these drawns and specifications to establish a a standard of glality. The engineer reserves the right to verbally approve methods and materials not reflected herein.
- 6. Contractor shall review architectural, structural, mechanical, plumbing and other drawns6 prior to bid.
- Ø, WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION PEES.
- . The Contractor shall guarantee the Installation against defects in Materials and Europamanship, which may occur under normal usage for a period of one year after substantial completion, defects shall be prohiftly corrected.
- PROVIDE RECORD DRAWNSS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- B. VERIFY EXACT LOCATION OF EQUIPMENT TO BE RUNNISHED BY OTHERS PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL VERFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERFY ALL CODE AND MAINTENANCE REGUIRED CLEARANCES ARE MAINTAINED.
- CONTRACTOR SHALL VERRY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRMS POWER, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE PROJECT ENGINEER.
- IS. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE ANY CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE CUNER.
- MRE SHALL BE COPPER 75° C RATED FOR GENERAL USE, FOR HID FOTURES AND WRING WITHIN 3° OF FLUCRESCENT BALLAST SHALL BE COPPER, MINIMUM 90° C RATED, CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30° C AMBIENT TEMPERATURE ENVIRONMENT, CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
- 20. Offices in exterior fullboxes and manholes shall be made waterproof using "scotcast" of lice kit or approved egual. Seal ends of conduits and ducts entering boxes with "ductseal" or equal.
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED, SUBMITTALS SHALL, INCLUDE BUT NOT LIMITED TO: LIGHTING PIXTURES, LAMPS, WIRRING DEVICES, OCCUPANCY SENSORS, CONTACTORS, THE CLOCKS, PHOTOCELLS, NELLYS, SWITCHES, PANEL BOARDS, MOTOR CONTROL CENTERS, SAPETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSPORTERS, CONDUCTORS OVER 500 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS, SOUND SYSTEMS ETC.
- VERRY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING, PROVIDE NECESSARY TRENCHING, BACKFILL EXCAVATION, SUPPORTS, SERVICE PEEDERS, (CONDUIT AND/OR WREE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAVING ETC, REGUIRED, BACKFILL TRENCHES TO SON COMPACTION AND PATCHING TO MATCH EXISTING, CONTRACTOR SHALL OBTAIN AND VERRY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE UTILITIES, ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.
- B. PILLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.

FIXTURE TYPE	MANUFACTURE	CATALOG NIMBER	DESCRIPTION	LAMPS	atr	FIX WATTS	MīG	VOLTE
A	METALUX	STD11-232-12@V	8' 4-LAMP INDUSTRIAL PLUORESCENT FIXTURE	P32T8 8P35	4	110	PEND.	120
B	METALUX	7FC8-332A-126V EBSI	NECESSED PLANSED 2'X4' 3-LAMP PLUCRESCENT FIXTURE	F32T8 6F3B	3	96	REC.	120
c	METALUX	₩8232A-12@V ED81	SUMPACE MOUNTED FLUORESCENT URAP AROUND FOOTURE	F32T8 8F35	2	66	sure.	120
EL.	<b>GUMELITES</b>	CC7NC8D-8M	EMERGENCY BATTERY PACK	CAU	2	32	eure.	120
×I	SUPELITES	LPX7 <i>0</i> 04-444	LED EXIT SIGN	LED	•	32	UNIV.	120
OA	LUMANK	1-144-25-0-12-0V	OUTDOOR 250W METAL HALIDE WALLPACK	28 <b>6</b> W MH	1	279	surf.	120
08	Magiraw Edison	AMP-Y-406MH-MT-76-BK	OUTDOOR 4000 METAL HALIDE PLOOD LIGHT	400W 11H	1	460	WALL	126
oc	LUMARK	MHUL100-120V	100W HETAL HALIDE FIXTURE	IPPW	1	110	WALL.	126
OD	LUMARK	M-ICL25@-12@V	296W METAL HALIDE FIXTURE	25ew MH	1	273	SUPE.	126



	DESCRIPTION	HEIGHT	
	ONE CIRCUIT, TWO WINE HOME PUN TO PANEL		
-	2 CIRCUIT, 3 WINE, COMMON NEUTRAL HOME RUN		
#	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT MUN CONCEALED IN PLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP	
0	CEILING LIGHT FOCURE	CEILING	
	WALL LIGHT POCTURE	AS NOTED	
<u>Ю</u>	RECESSED DOUNLIGHT FIXTURE	CEILING	
<u> </u>	PLUORESCENT LIGHT PORTURE	AS NOTED	
	PLUCRESCENT EGRESS LIGHT FIXTURE		UNBUITCHED
	CEILING MOUNTED EXIT LIGHT	CEILING	
<u> </u>		AS NOTED	
	WALL MOUNTED EXIT LIGHT	4'-0"	
\$	SNGLE POLE SUITCH		
\$°	SNGLE POLE SUITCH	4'-0"	
\$3	THREE-WAY GUITCH	44'-0"	
\$4	POUR-MAY BUITCH	44'-0"	
\$ <sup>K</sup>	KEY OPERATED SUITCH	*4"-0"	
<u>\$*</u>	BUTCH WITH IPILOT LIGHT	+4'-Ø"	
<u>\$</u>	VARIABLE INTENSITY SUITCH	4'-0"	
<u> </u>	TIMER SUITCH	44'-0"	
<b>⇒</b>	DUPLEX RECEPTAGLE	46"	
-⊕_▲	DUPLEX RECEPTACLE		
- <b>⊕</b> ₩	ELECTRIC WATER COOLER RECEPTACLE		
<del></del>	WEATHERPROOF RECEPTAGLE	424*	
<del>.</del> ⊕ 6	HOLATED GROUND RECEPTACLE	46"	
<b>-9</b>	GROUND PAULT INTERNUPTER DUPLEX RECEPTAGLE	46.	
<del></del>	DUPLEX RECEPTACLE EMERGENCY POURR (RED)	46"	
	POURPLEX RECEPTAGLE	16"	
	POURPLEX RECEPTAGLE EMERGENCY POWER (RED)	44.	
<u> </u>	PLOOR OUTLET WITH 2004 DEVICE	PLOOR	
	SPECIAL PURPOSE OUTLET	46 NOTED	· · · · · · · · · · · · · · · · · · ·
	DATA OUTLET	46,	
<u> </u>	TELEPHONE CUTLET	46"	
	TELEPHONE/DATA OUTLET	46.	
<b>O</b>	TELEPHONE OUTLET	PLOOR	
<u> </u>	JUNCTION BOX ("F" IN FLOOR)	AS NOTED	
<u> </u>	MOTOR OUTLET	TO SUIT	
	NON-PUBED DISCONNECT SWITCH	4'-0"	
	Pubed Disconnect Suitch	**·•°	
\$⁺	MANIAL STARTER THERMAL OVERLOAD SWITCH WITH IPILOT L		
	PANEL BOARD	10P AT	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
<b>8</b> 42	ARCHITECTURAL IROOM NUMBER		
(A)	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
<del>(12)</del>	EGUIPMENT NUMBER		and the second s

ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

### INDEX OF ELECTRICAL DRAWINGS

ELECTRICAL SCHEDULES, NOTES PANEL SCHEDULES & ONE LINE DIAGRAM ELECTRICAL SITE PLAN Lighting Plan Salt Storage Bulding Electrical Plan POWER FLOOR PLAN

CLIENT

NOTES

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



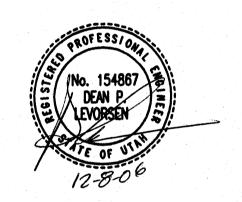
architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

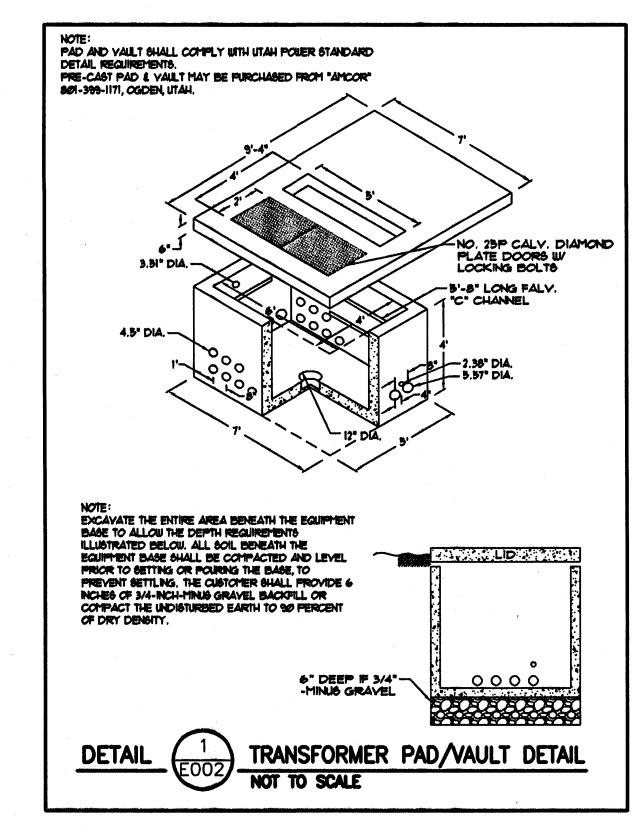


ISSUE		
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

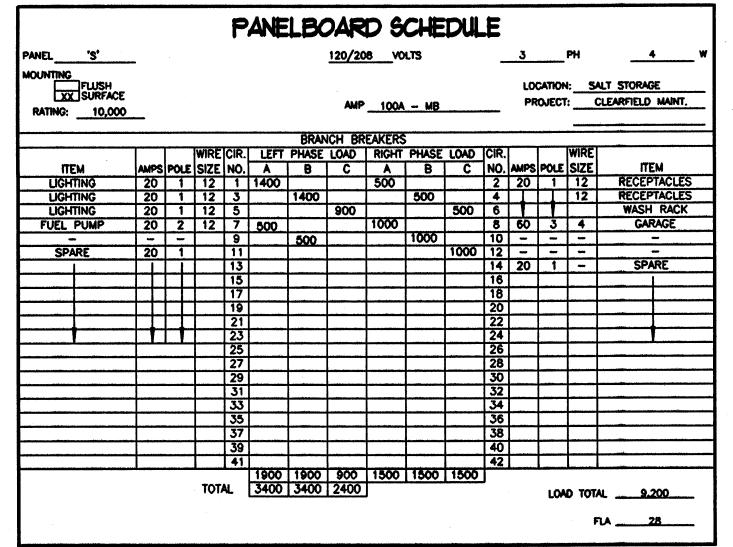
DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	R,S.C
CHECKED BY:	R.K.R
SCALE:	
DATE:	DECEMBER 8, MONE
KEY PLAN	

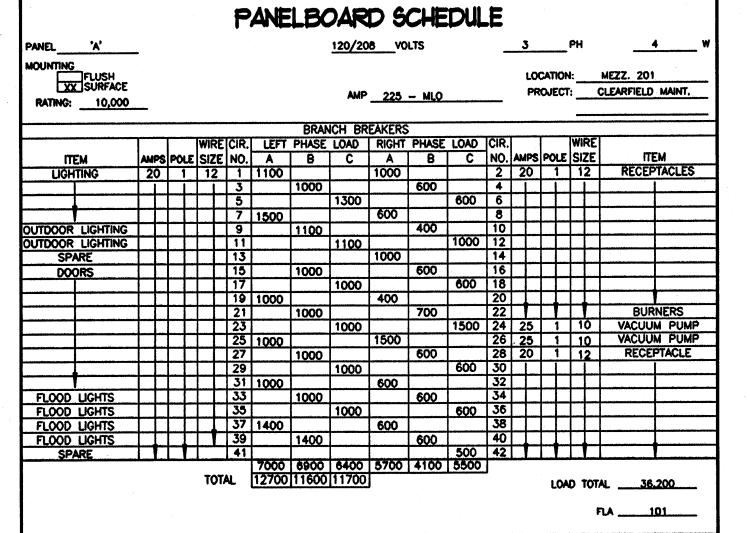
SHEET TITLE

ELECTRICAL SCHEDULES, NOTES



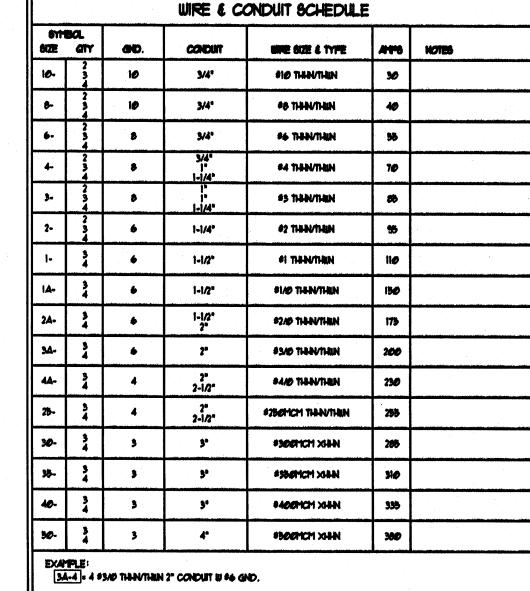
2

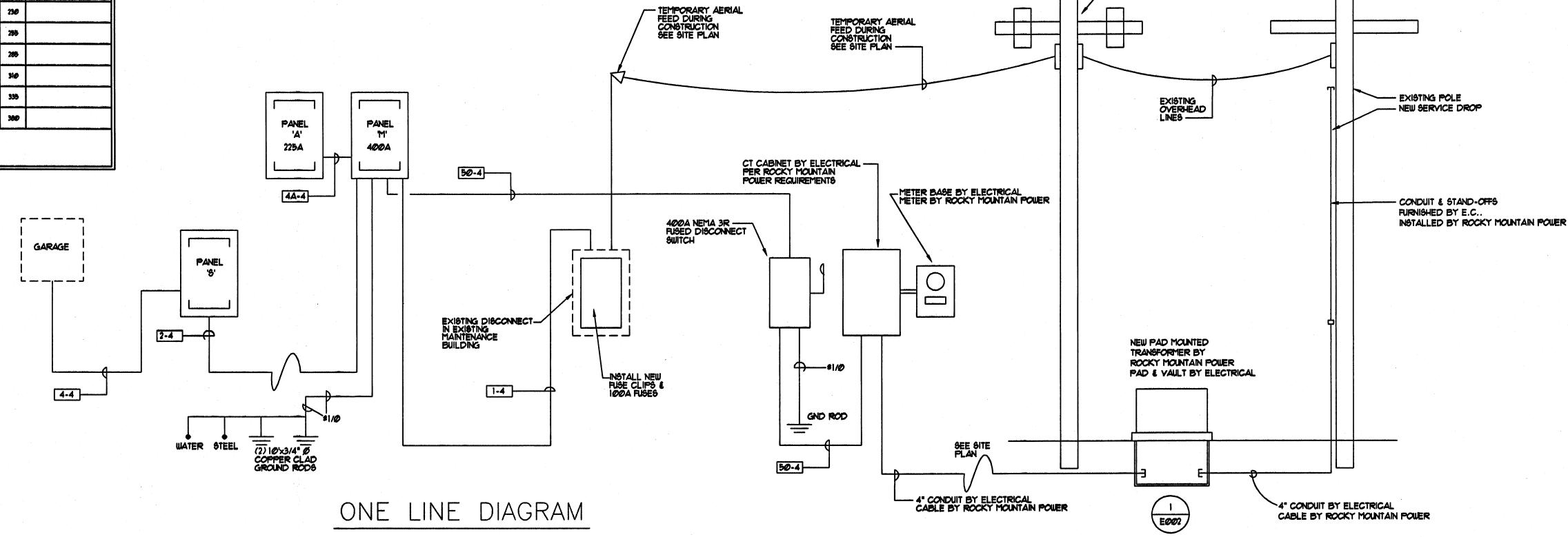




PANEL 'M'	_						120/20	<u>8</u> vo	LTS		_	3_		PH	4W
AOUNTING FLUSH												LO	CATION	<b>l</b> : 1	MEZZ. 201
XX SURFACE							AMP	400	- MLO			PR	OJECT	:	LEARFIELD MAINT
RATING: 22,000	SERVIC	E RAT	ED											***************************************	
						BRAN	ICH BR	EAKERS	\$						
			WIRE	CIR.	LEFT	PHASE	LOAD	RIGHT	PHASE	LOAD	CIR.			WIRE	
ITEM	AMP5	POLE	SIZE	NO.	A	В	С	A	В	C	NO.	AMPS	POLE		ITEM
COMPRESSOR	50	3	6	1	2900			12700			2	125	3	1/0	PANEL 'A'
-1/2 HP-VERIFY		-	-	3		2900			11600		4		-	-	<u> </u>
		_	-	5			2900			11700	6				
SPARE	20	1	12	7				2400			8	40	2	8	COND. UNIT
SPARE	20	1	12	9					2400		10	-	-		
SPARE	20	1	12	11						1000	12	20	1_	_	FURNACE
SPARE	20	1	12	13				900			14	20	3	3	EXH, FAN
SPECIAL OUTLET	60	2	6	15		3500	<u> </u>		900		16	_	-	-	EF-2 2HP
			-	17			3500			900	18	_	-		•••
SPECIAL OUTLET	60	2	6		3500			2900			20	50	3	6	MOBILE LIFT
-			_	21		3500			2900		22	_		-	<b>48</b>
PUMP	20	3	12	23			900			2900	24		-		
1 1/2HP		_	=	25	900			2900			26	50	3_	6	HOIST
		-		27		900			2900	****	28	-			7-1/2HP
SPARE	20	1		29			<u> </u>			2900	30	-	-	-	
	20	1		31				5000			32	100	3	-	EXISTING PANEL
	20	1		33					5000	****	34	_		=	
	20	1		35				5.12.2		5000	36	-	-	-	
	20	1		37				3400			38	60	3	3	PANEL 'S'
	20	1		39					3400	A 4 A A	40	-	-	-	
	20	1		41				****		2400	42				
				<b></b>				33100	29100	26800	j				
			TC	TAL	40400	39900	37100				•		104	n TOTA	114400

EXISTING POLE & TRANSFORMERS TO BE TEMPORARY RELOCATE TO MAINTAIN SERVER TO THE EXISTING MAINTENCE BUILDING DURING CONSTRUCTION.





CLIENT

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015



architecture - planning - design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

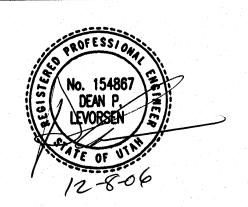
DESIGNER



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

ISSUE

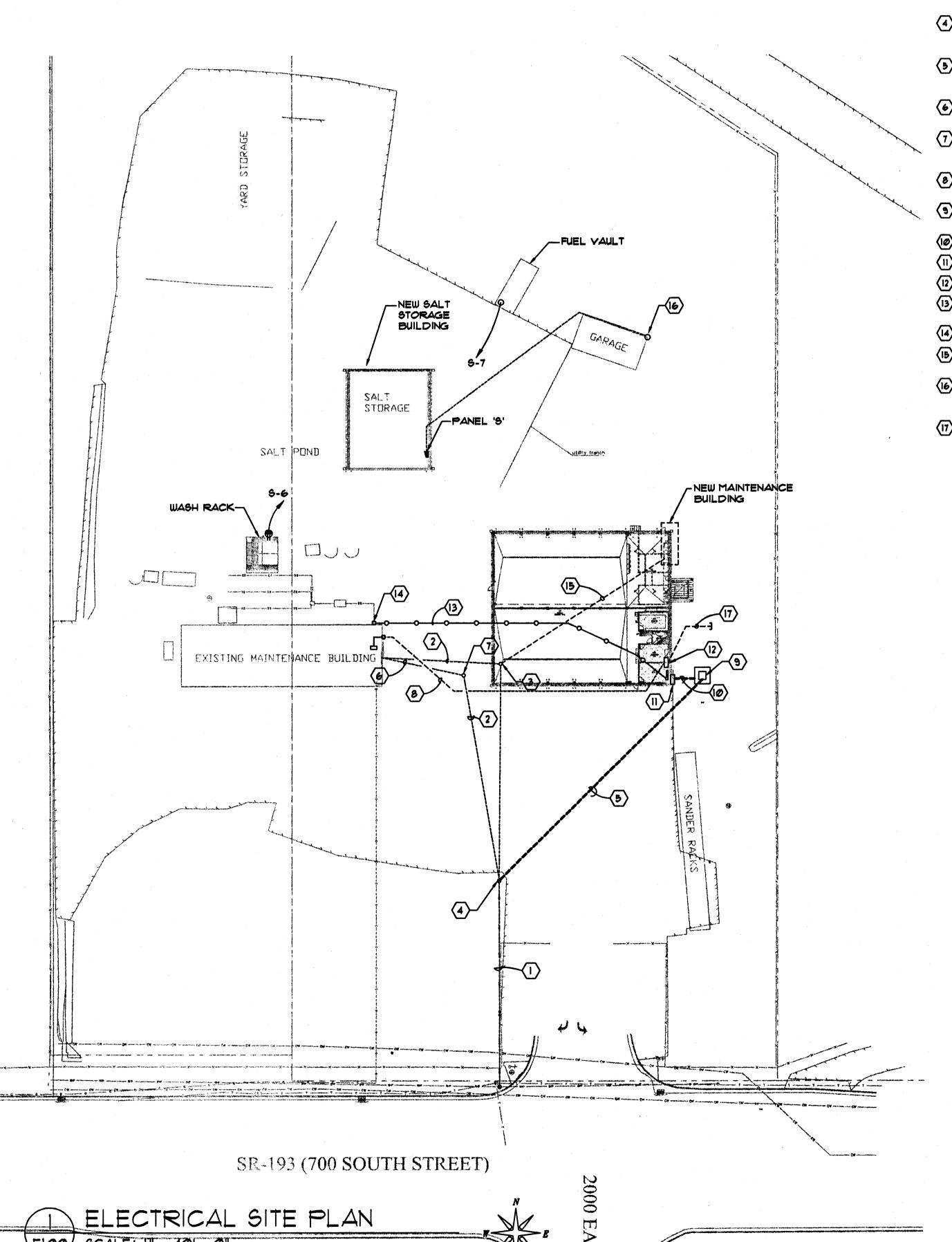


	T			***
	12/08/06	CONSTRUCTI	ON DOCUMENTS	
	08/28/06	95% DESIGN	SUBMITTAL	
	07/17/06	60% DESIGN	I SUBMITTAL	_
MARK	DATE	DESCRIPTION		
DFCM	CONTRACT	NO:	067477	
DFCM	PROJECT N	١0:	06034900	
ARCHI	PLEX PROJ	ECT NO:	0609,01	-
DRAW	N BY:		R.S.C	1

ARCHIPLEX PROJECT N	10:	0	609,01
DRAWN BY:			R,S,C
CHECKED BY:			R.K.R
SCALE:			
DATE:	DECEM	BER 8,	KODE
KEY PLAN			

SHEET TITLE

PANEL SCHEDULES, ONE LINE DIAGRAM AND DETAILS



- EXISTING OVERHEAD PRIMARY LINES TO BE CHANGED TO 30 FEED BY ROCKY MOUNTAIN POWER.
- 2 EXISTING OVERHEAD PRIMARY LINES TO BE TEMORARILY RELOCATED AND LATER REMOVED BY ROCKY MOUNTAIN POWER.
- EXISTING POWER POLE TO BE REMOVED BY ROCKY MOUNTAIN POWER. TEMPORARILY LOCATED TO THE WEST. SEE KEYED NOTE 7.
- EXISTING POWER POLE TO REMAIN AND HAVE NEW 30 DOWN LEAD BY ROCKY MOUNTAIN POWER. SEE ONE LINE DIAGRAM SHEET EOO!.
- NEW UNDERGROUND PRIMARY FEED TO PAD MOUNTED TRANSFORMER. SEE ONE LINE DIAGRAM SHEET EOO!.
- RELOCATED TEMPORARY POWER FEED BY ROCKY MOUNTAIN POWER.
- TEMPORARY POWER POLE BY ROCKY MOUNTAIN POWER. TEMPORARY FEED TO EXISTING BUILDING
- 8 NEW FEED TO EXISTING BUILDING. SEE ONE LINE DIAGRAM SHEET OOI.
- NEW PAD MOUNTED TRANSFORMER. SEE ONE LINE DIAGRAM SHEET 001.
- SECONDARY FEEDERS.
- (II) CT CABINET AND METER.
- (12) DISTRIBUTION PANEL 'M' ON MEZZANINE LEVEL
- NEW U.G. 2"C TELEPHONE SERVICE TO NEW BUILDING. SEE SHEET ESOI.
- (4) EXISTING TELEPHONE PEDESTAL.
- (I5) EXISTING OVERHEAD SECONDARY POWER LINE TO BE REMIVED BY E.C.
- DISCONNECT EXISTING GARAGE POWER SERVICE & RE-FEED FROM PANEL 'S'. SEE ONE LINE DIAGRAM.
- 17 1"C.O. FROM PANEL M STUBBED OUT OF BUILDING FOR FUTURE.

CLIENT

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424

DESIGNER



2001 EAST 700 SOUTH

CLEARFIELD, UTAH 84015

architecture • planning • design services

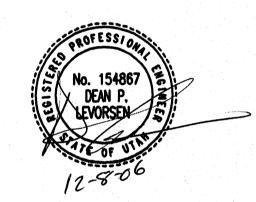
1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



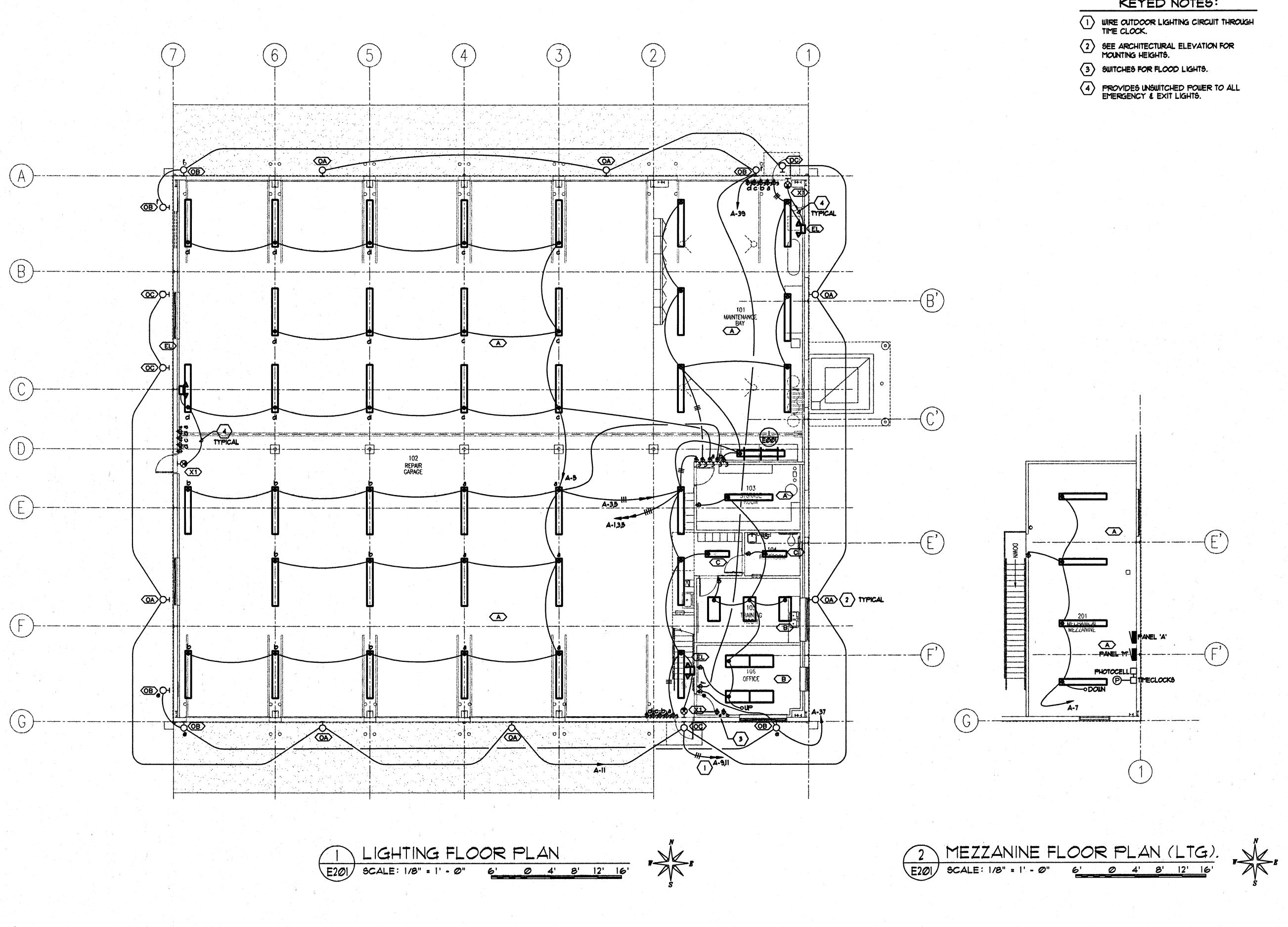
ISSUE		
	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL
MARK	DATE	DESCRIPTION

DFCM CONTRACT NO:	067477
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT NO:	0609.01
DRAWN BY:	R.S.C
CHECKED BY:	R.K.R
SCALE:	
DATE:	DECEMBER" \$402006

KEY PLAN

SHEET TITLE

ELECTRICAL SITE PLAN



CLIENT

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER



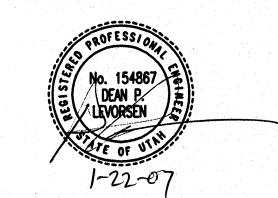
architecture · planning · design services 1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



ISSUE

$\Lambda$	1/15/07	DFCM REVIEW COMMENTS
*	12/08/06	CONSTRUCTION DOCUMENTS
	08/28/06	95% DESIGN SUBMITTAL
	07/17/06	60% DESIGN SUBMITTAL

MARK DATE DESCRIPTION

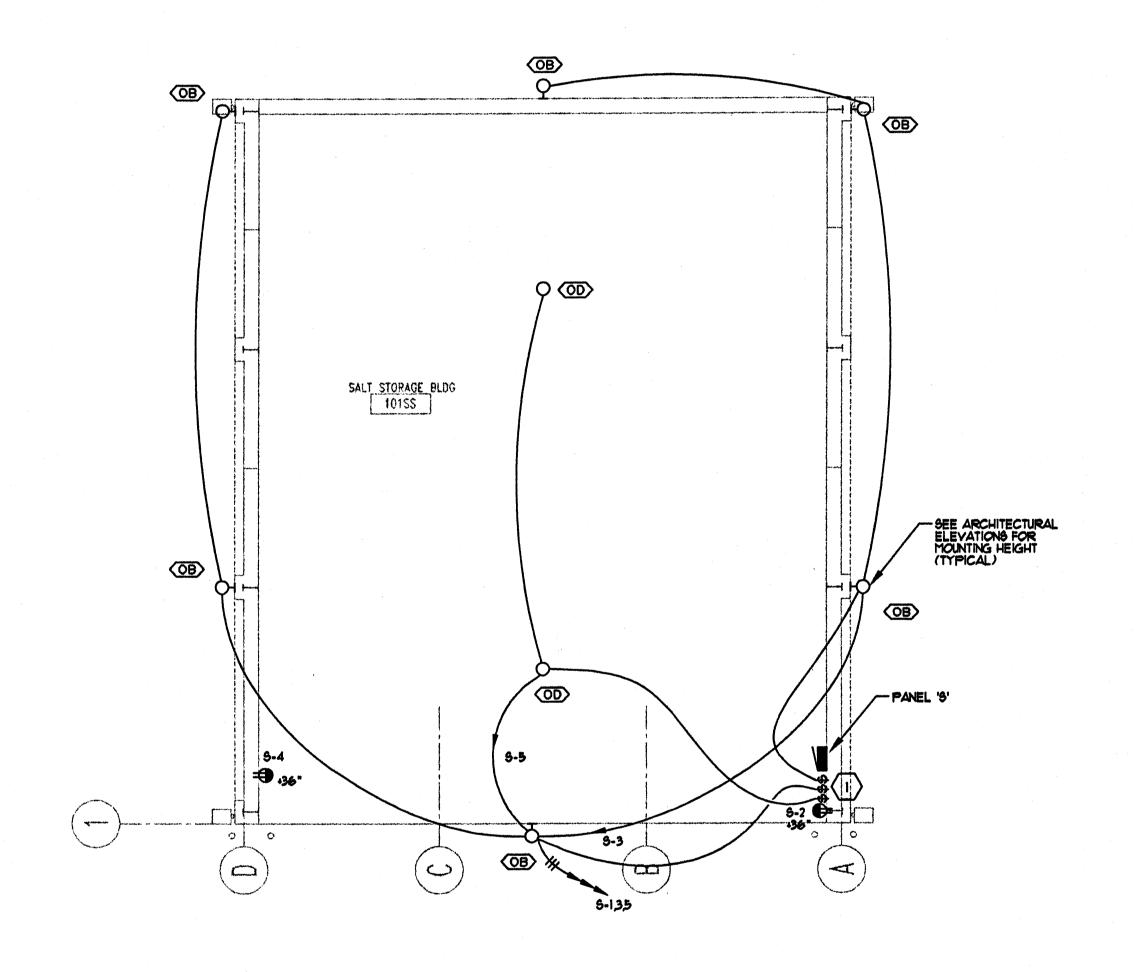
067477
06034900
0609.01
R.S.C
R.K.R
BER88=12006

KEY PLAN

SHEET TITLE

LIGHTING FLOOR PLAN

PROVIDE WEATHERPROOF SWITCHES.



3 SALT STORAGE BLDG. ELECTRICAL

E202 SCALE: 1/8" • 1' - 0" 6' 0 4' 8' 12' 16'

CLEARFIELD
MAINTENANCE
FACILITY
STATION #1424
2001 EAST 700 SOUTH
CLEARFIELD, UTAH 84015

DESIGNER



architecture • planning • design services

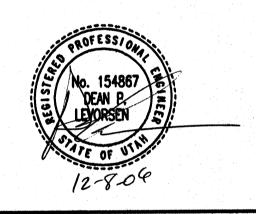
1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

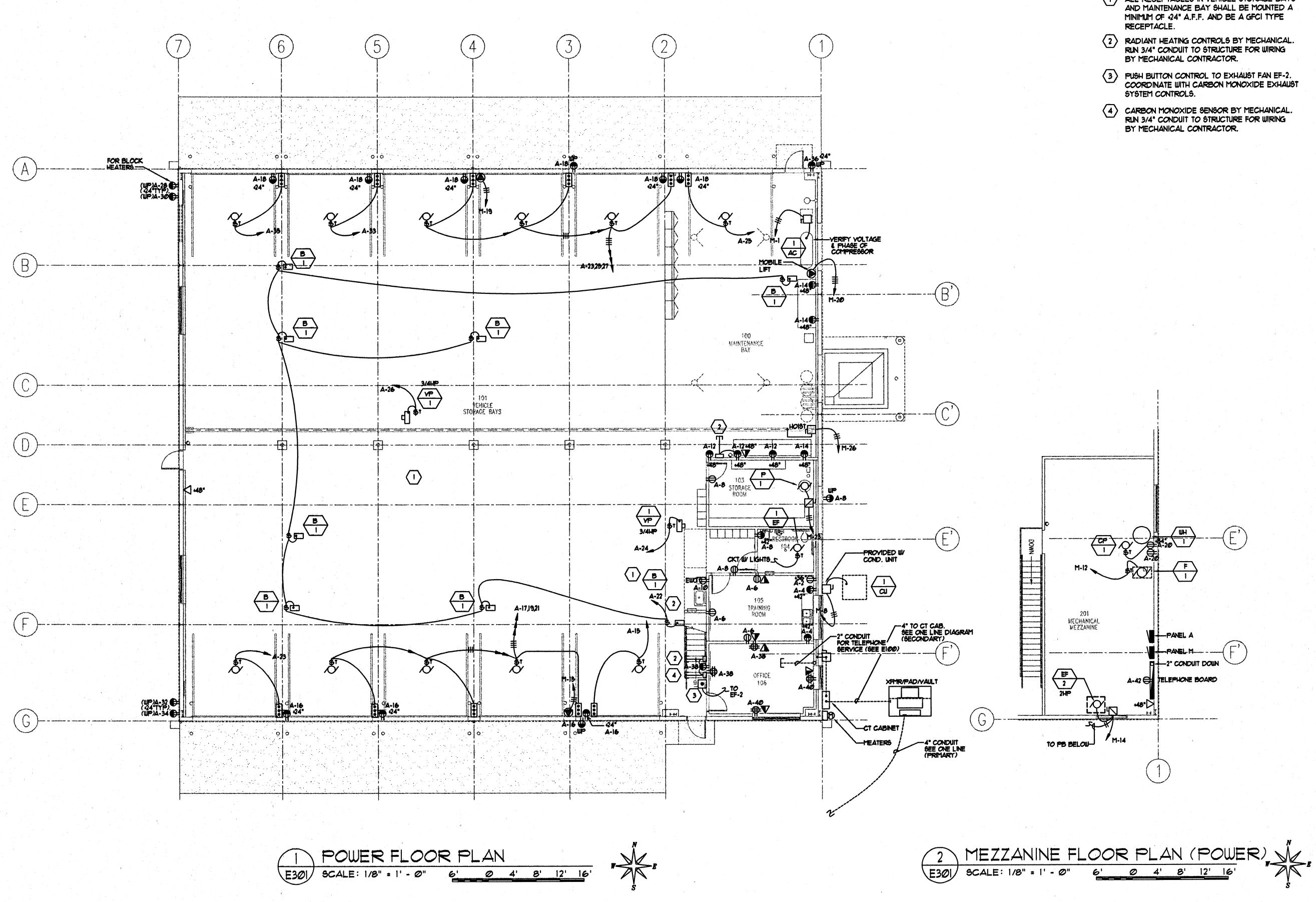


ISSUE			
	12/08/06	CONSTRUCTIO	N DOCUMENTS
	08/28/06	95% DESIGN	SUBMITTAL
	07/17/06	60% DESIGN	SUBMITTAL
MARK	DATE	DESCRIPTION	
DFCM	CONTRACT	NO:	067477

I DECIMI CONTINACT NO	•
DFCM PROJECT NO:	06034900
ARCHIPLEX PROJECT	NO: 0609.01
DRAWN BY:	R.S.C
CHECKED BY:	R.K.R
SCALE:	
DATE:	DECEMBER8 % 12008
KEY PLAN	

SHEET TITLE

SALT STORAGE BLDG ELECTRICAL PLAN



ALL RECEPTACLES IN VEHICLE STORAGE BAYS AND MAINTENANCE BAY SHALL BE MOUNTED A

CLEARFIELD MAINTENANCE FACILITY

STATION #1424 2001 EAST 700 SOUTH CLEARFIELD, UTAH 84015

DESIGNER

CLIENT



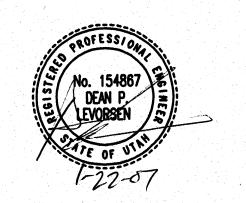
architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City, UT 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



ISSUE				
$\overline{\mathbb{A}}$	1/15/07	DFCM REVIEW COMMENTS		
	12/08/06	CONSTRUCTION DOCUMENTS		
	08/28/06	95% DESIGN SUBMITTAL		
	07/17/06	60% DESIGN SUBMITTAL		
MARK		DESCRIPTION		

DFCM	CONTRACT NO:	067477
DFCM	PROJECT NO:	06034900
ARCH	PLEX PROJECT NO:	0609.01
DRAW	N BY:	R.S.C
CHEC	KED BY:	R.K.R
SCALE		1/8"=1'-0"
DATE:	DEC	EMBER 8, 2006

KEY PLAN

SHEET TITLE

POWER FLOOR PLAN